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<210> 3439

<211> 712

<212> DNA

<213> Homo sapiens

<400> 3439

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<210> 3440

<211> 840

<212> DNA

<213> Homo sapiens

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<210> 3441

<211> 890

<212> DNA

<213> Homo sapiens.

<400> 3441

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<210> 3442

<211> 849

<212> DNA

<213> Homo sapiens

<400> 3442

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<210> 3443

<211> 802

<212> DNA

<213> Homo sapiens

<400> 3443

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<210> 3444

<211> 868

<212> DNA

<213> Homo sapiens

<400> 3444

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<210> 3445

<211> 862

<212> DNA

<213> Homo sapiens

<400> 3445

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<210> 3446

<211> 867

<212> DNA

<213> Homo sapiens

<400> 3446

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<210> 3447

<211> 738

<212> DNA

<213> Homo sapiens

<400> 3447

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<210> 3448

<211> 715

<212> DNA

<213> Homo sapiens

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<210> 3449

<211> 775

<212> DNA

<213> Homo sapiens

<400> 3449

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<210> 3450

<211> 734

<212> DNA

<213> Homo sapiens

<400> 3450

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<210> 3451

<211> 664

<212> DNA

<213> Homo sapiens

<400> 3451

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<210> 3452

<211> 793

<212> DNA

<213> Homo sapiens

<400> 3452

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<210> 3453

<211> 770

<212> DNA

<213> Homo sapiens

<400> 3453

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<212> DNA

<213> Homo sapiens

<400> 3454

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<210> 3455

<211> 777

<212> DNA

<213> Homo sapiens

<400> 3455

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<210> 3456

<211> 902

<212> DNA

<213> Homo sapiens

<400> 3456

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<211> 789

<212> DNA

<213> Homo sapiens

<400> 3457

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<210> 3458

<211> 772

<212> DNA

<213> Homo sapiens

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<210> 3459

<211> 760

<212> DNA

<213> Homo sapiens

<400> 3459

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<210> 3460

<211> 713

<212> DNA

<213> Homo sapiens

<400> 3460

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<210> 3461

<211> 675

<212> DNA

<213> Homo sapiens

<400> 3461

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 ggtgtgacat gctatgcaaa tcctgcntgg ccagaagct tatgggncat tttccatttt 660
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<210> 3462

<211> 814

<212> DNA

<213> Homo sapiens

<400> 3462

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<210> 3463

<211> 867

<212> DNA

<213> Homo sapiens

<400> 3463

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<210> 3464

<211> 754

<212> DNA

<213> Homo sapiens

<400> 3464

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<210> 3465

<211> 808

<212> DNA

<213> Homo sapiens

<400> 3465

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<210> 3466

<211> 791

<212> DNA

<213> Homo sapiens

<400> 3466

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<210> 3467

<211> 850

<212> DNA

<213> Homo sapiens

<400> 3467

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<210> 3468

<211> 820

<212> DNA

<213> Homo sapiens

<400> 3468

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<210> 3469

<211> 645

<212> DNA

<213> Homo sapiens

<400> 3469

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<211> 792

<212> DNA

<213> Homo sapiens

<400> 3470

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<210> 3471

<211> 841

<212> DNA

<213> Homo sapiens

<400> 3471

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<211> 813

<212> DNA

<213> Homo sapiens

<400> 3472

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<210> 3473

<211> 822

<212> DNA

<213> Homo sapiens

<400> 3473

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<210> 3474

<211> 638

<212> DNA

<213> Homo sapiens

<400> 3474

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638

<210> 3475

<211> 788

<212> DNA

<213> Homo sapiens

<400> 3475

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tgctgntg 788

<210> 3476

<211> 696

<212> DNA

<213> Homo sapiens

<400> 3476

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<210> 3477

<211> 802

<212> DNA

<213> Homo sapiens

<400> 3477

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<210> 3478

<211> 873

<212> DNA

<213> Homo sapiens

<400> 3478

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<210> 3479

<211> 807

<212> DNA

<213> Homo sapiens

<400> 3479

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<210> 3480

<211> 700

<212> DNA

<213> Homo sapiens

<400> 3480

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<210> 3481

<211> 891

<212> DNA

<213> Homo sapiens

<400> 3481

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<210> 3482

<211> 877

<212> DNA

<213> Homo sapiens

<400> 3482

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<210> 3483

<211> 684

<212> DNA

<213> Homo sapiens

<400> 3483

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<210> 3484

<211> 732

<212> DNA

<213> Homo sapiens

<400> 3484

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<210> 3485

<211> 724

<212> DNA

<213> Homo sapiens

<400> 3485

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<210> 3486

<211> 669

<212> DNA

<213> Homo sapiens

<400> 3486

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<210> 3487

<211> 908

<212> DNA

<213> Homo sapiens

<400> 3487

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taatacagtt aaaagaacga gaccgtaaga ggcaatatga gctgctgaaa cttgaaagaa 420
acttccagaa acaatccaat gtgctcagac gtaaaaacgg aggaggcagc agctgccaac 480

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aagcgtctca aggatgctct ccagaaacaa cgggaggttg cagataagcg gaaagagact 540
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 aaccgctg 908

<210> 3488

<211> 860

<212> DNA

<213> Homo sapiens

<400> 3488

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 tatttatgaa attatttaaa cgttcaaaag attgttttta acatggttta atttcccaa 180
 aactacagtt tttttctta gcatgctatt caggtaaaca gtcttataat aaagcatgtc 240
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 gtgccaggac acattctgca tggcattctg tgaaaggcat cctgctgagg ataatgccag 780
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ctgaacttac cattcagagn

860

<210> 3489

<211> 795

<212> DNA

<213> Homo sapiens

<400> 3489

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aagtaggaac cacagcagtg ggatggacgc agtatttctt gccaatcag acccagaaac 720
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795

<210> 3490

<211> 844

<212> DNA

<213> Homo sapiens

<400> 3490

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<210> 3491

<211> 902

<212> DNA

<213> Homo sapiens

<400> 3491

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 gccacttcaa agaatttact ctgggggtcaa aaccacata ttttaataaac ataggaatga 180
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 aatccacact gcagataaac ctaacagatg tcatgaatgt ggtaaaaccg tcagggacaa 360
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 aatccacact ggagagaaac cttacaaatg taaagaatgt gacaaagctt ttaggcacaa 780
 gtctcctgac agtcacaga gaaatcatat gggagagaaa ccttataatg tcatgaatgt 840
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<210> 3492

<211> 692

<212> DNA

<213> Homo sapiens

<400> 3492

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<210> 3493

<211> 739

<212> DNA

<213> Homo sapiens

<400> 3493

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tgggaaggcc tttagccagg ggtnacacct tattcagcat canaggagtc acattggtga 180
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tgagaaatcc ttcantgcat gcttatccct tatccaacac aagagaattc aacttgata 600
gaaaccctat gtatgtgcc aatgtggaaa atccttctga caaagctctn accttattca 660
acatcagaga attcacagtg gggagcaacc tcatacgtgt aatcgatgtt gaaaaaacct 720
tnagtttnga gaataactc 739
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<210> 3494

<211> 724

<212> DNA

<213> Homo sapiens

<400> 3494

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acttgagtcc tcagggtgtg tgactccaaa gctgacaagc aggtggcatt cttcttcaga 180
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gcagggcaag tgtaattctg gaccaatgtg tgattctgag accagaccaa ccaactgaag 240
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 gccataagga gtttgattct acaaaagaaa ccaaaccatca gaaatacatc cagcatggct 420
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 tggatgctgc cccctcaagg tgctatctca gagaccagga tgggccatcc ccagttctgg 600
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<210> 3495

<211> 910

<212> DNA

<213> Homo sapiens

<400> 3495

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 cgagatcccg ggCgggggca ccgagggcta ccacgttcag cgggtacaag aaaattcccc 180
 aggacacaga gctggtttgg agcctttctt tgattttatt gtttctatta atggttcaag 240
 attaaataaa gacaatgaca ctcttaagga tctgctgaaa gcaaacgttg aaaagcctgt 300
 aaagatgctt atctatagca gcaaaacatt ggaactgcga gagacctcag tcacaccaag 360
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 cacagacact gataactgtc gagaagtgat tattacacca aattctgcat ggggtggaga 660
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<210> 3496

<211> 761

<212> DNA

<213> Homo sapiens

<400> 3496

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 tgtgactacc ctggttacct catataatct ccctggaaaa ggagacatga atgtctgcaa 180
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<210> 3497

<211> 893

<212> DNA

<213> Homo sapiens

<400> 3497

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<210> 3498

<211> 827

<212> DNA

<213> Homo sapiens

<400> 3498

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ttcccaaact gatttaagcc aaacgatctc aaagaaaact gtcaggagca tacaagaggc 240
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tgaagccacc agtgtccaac agaagggtcaa tttctctgaa gaaggagaaa ctgaagaaga 360
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 gactggacaa ccccaaaatg catcttttgt caagaggaac cgggtggtggc tacttctctt 720
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<210> 3499

<211> 681

<212> DNA

<213> Homo sapiens

<400> 3499

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 ctgatctgcn cagcttccaa a 681

<210> 3500

<211> 774

<212> DNA

<213> Homo sapiens

<400> 3500

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tctatccgag ccgCggccgc gaggaggagg gaaaaggcga gcaaaaagga agagtgggag   180
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ggaaatggtg tccaattgc acgggaatgc tacctcaagc acgactgtgc gccgnttgcc   720
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<210> 3501

<211> 790

<212> DNA

<213> Homo sapiens

<400> 3501

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ccacagattc caggattcta caggcaggaa acatcttaga aatcagggtt gggcaggcag   120
gagccaggag agtagctaca atgacttcac cagtactggt ggacatacga gaagaggtga   180

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 gaagctgccc tgtgtgccag accagctacc agccaggga cctgcggcct aatcggcatc 360
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<210> 3502

<211> 748

<212> DNA

<213> Homo sapiens

<400> 3502

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 tacatgatga gtattagtaa cgatgactta tgtataatca gaatctttat gacaatttag 180
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<210> 3503

<211> 717

<212> DNA

<213> Homo sapiens

<400> 3503

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<210> 3504

<211> 693

<212> DNA

<213> Homo sapiens

<400> 3504

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<210> 3505

<211> 851

<212> DNA

<213> Homo sapiens

<400> 3505

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<210> 3506

<211> 692

<212> DNA

<213> Homo sapiens

<400> 3506

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<210> 3507

<211> 681

<212> DNA

<213> Homo sapiens

<400> 3507

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<211> 702

<212> DNA

<213> Homo sapiens

<400> 3508

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<210> 3509

<211> 597

<212> DNA

<213> Homo sapiens

<400> 3509

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<210> 3510

<211> 621

<212> DNA

<213> Homo sapiens

<400> 3510

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<210> 3511

<211> 774

<212> DNA

<213> Homo sapiens

<400> 3511

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<210> 3512

<211> 873

<212> DNA

<213> Homo sapiens

<400> 3512

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<210> 3513

<211> 879

<212> DNA

<213> Homo sapiens

<400> 3513

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<210> 3514

<211> 892

<212> DNA

<213> Homo sapiens

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<210> 3515

<211> 786

<212> DNA

<213> Homo sapiens

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<210> 3516

<211> 849

<212> DNA

<213> Homo sapiens

<400> 3516

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<210> 3517

<211> 857

<212> DNA

<213> Homo sapiens

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<210> 3518

<211> 826

<212> DNA

<213> Homo sapiens

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<211> 894

<212> DNA

<213> Homo sapiens

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<210> 3520

<211> 805

<212> DNA

<213> Homo sapiens

<400> 3520

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<210> 3521

<211> 724

<212> DNA

<213> Homo sapiens

<400> 3521

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<210> 3522

<211> 842

<212> DNA

<213> Homo sapiens

<400> 3522

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<210> 3523

<211> 850

<212> DNA

<213> Homo sapiens

<400> 3523

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<210> 3524

<211> 828

<212> DNA

<213> Homo sapiens

<400> 3524

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aactatttca gcaccagaaa aaactcaatg ggtattaaga gaccagcccc gnantgttn 780
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<210> 3525

<211> 803

<212> DNA

<213> Homo sapiens

<400> 3525

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<210> 3526

<211> 703

<212> DNA

<213> Homo sapiens

<400> 3526

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gtgtcttcca aatcctgaat atttggctcc tgaatacata ctttctgtga gctgtgaaac	180
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703

<210> 3527

<211> 761

<212> DNA

<213> Homo sapiens

<400> 3527

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<210> 3528

<211> 778

<212> DNA

<213> Homo sapiens

<400> 3528

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<210> 3529

<211> 799

<212> DNA

<213> Homo sapiens

<400> 3529

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<210> 3530

<211> 834

<212> DNA

<213> Homo sapiens

<400> 3530

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<210> 3531

<211> 812

<212> DNA

<213> Homo sapiens

<400> 3531

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<210> 3532

<211> 790

<212> DNA

<213> Homo sapiens

<400> 3532

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<210> 3533

<211> 867

<212> DNA

<213> Homo sapiens

<400> 3533

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<210> 3534

<211> 801

<212> DNA

<213> Homo sapiens

<400> 3534

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<210> 3535

<211> 741

<212> DNA

<213> Homo sapiens

<400> 3535

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ttccctcaga ttttgccaag agaattgtcc tgggtgtggcc canaaaggcc ancggggtgc	720
ancctgggac tgaaaagcag a	741

<210> 3536

<211> 601

<212> DNA

<213> Homo sapiens

<400> 3536

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nccaaaatgt gggtttattc ctttctcgag tgatgtcacg catgagatga agcataaggt 540
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<210> 3537

<211> 744

<212> DNA

<213> Homo sapiens

<400> 3537

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 gagtaagccg gtggcagtcc cagaagagca gcctgttgca gaatctggac tattagcgag 180
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 ccaggagatc acaaatcatg ctcctttatc gggggagtct ttgaccagcagg tgggatcaga 660
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<210> 3538

<211> 839

<212> DNA

<213> Homo sapiens

<400> 3538

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<210> 3539

<211> 760

<212> DNA

<213> Homo sapiens

<400> 3539

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ggtacggcag caatgacgac cctggatctg gcatggtggc agagcctggc accattgccg 300
gggtggccag cgccctggcc atggccctca tcggtgccgt ctccagctac atctcctacc 360
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 ctctgggtgt ttgtgagttt ggnttctctg gccttgccca agcgtgctga gacttggtgc 720
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<210> 3540

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3540

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 gccgcgcgcc cagccatgaa cctggcgagc cagagcgggg aggcggcgcc cggccagctg 240
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<210> 3541

<211> 828

<212> DNA

<213> Homo sapiens

<400> 3541

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cccgccgtct gccactcct ctagccggaa cctggggggcc cggagccggg gtaggcacag   180
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cctgcaggga agaaccgag tcgaagcggg aagatggctg cagacaagcc tgcagatcag   300
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cagtgtgttt tttgcttgga gacctggata tattaaccta ccaagctgag aaacttggat   780
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<210> 3542

<211> 789

<212> DNA

<213> Homo sapiens

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ccatgggaag gctgtaccaa aatgtgtcaa ggtcttcagc gaagaaacat aacttgcata   120
cataagagtg atcatagtgt tgtgtctgat aaagaatgtg accacttgcc acttccatca   180

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 tccattcacg aaggacagac tgttcaagtt gatgaccact actgtggtga ccagcttaaa 360
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 gggtnntcaa 789

<210> 3543

<211> 852

<212> DNA

<213> Homo sapiens

<400> 3543

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 cagaaacaat tgtacanggg acgcatgagt cttggtcaca gccctggagc tgatcaccta 840
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<210> 3544

<211> 738

<212> DNA

<213> Homo sapiens

<400> 3544

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<210> 3545

<211> 695

<212> DNA

<213> Homo sapiens

<400> 3545

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<210> 3546

<211> 879

<212> DNA

<213> Homo sapiens

<400> 3546

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ctgatgtctg atgaaatfff aagccccagc tatagctact acaaagaaaa gtggctgatg 540
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<210> 3547

<211> 685

<212> DNA

<213> Homo sapiens

<400> 3547

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<210> 3548

<211> 762

<212> DNA

<213> Homo sapiens

<400> 3548

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<210> 3549

<211> 794

<212> DNA

<213> Homo sapiens

<400> 3549

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<210> 3550

<211> 847

<212> DNA

<213> Homo sapiens

<400> 3550

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<210> 3551

<211> 821

<212> DNA

<213> Homo sapiens

<400> 3551

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<210> 3552

<211> 756

<212> DNA

<213> Homo sapiens

<400> 3552

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<210> 3553

<211> 647

<212> DNA

<213> Homo sapiens

<400> 3553

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<210> 3554

<211> 717

<212> DNA

<213> Homo sapiens

<400> 3554

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<210> 3555

<211> 714

<212> DNA

<213> Homo sapiens

<400> 3555

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<210> 3556

<211> 870

<212> DNA

<213> Homo sapiens

<400> 3556

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 aaaaacttgg gacttgaatt ttagctcca tttacatgga tccattgccc cagctactgg 180
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<210> 3557

<211> 873

<212> DNA

<213> Homo sapiens

<400> 3557

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<210> 3558

<211> 806

<212> DNA

<213> Homo sapiens

<400> 3558

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<210> 3559

<211> 839

<212> DNA

<213> Homo sapiens

<400> 3559

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<210> 3560

<211> 777

<212> DNA

<213> Homo sapiens

<400> 3560

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<210> 3561

<211> 743

<212> DNA

<213> Homo sapiens

<400> 3561

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<210> 3562

<211> 814

<212> DNA

<213> Homo sapiens

<400> 3562

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<210> 3563

<211> 887

<212> DNA

<213> Homo sapiens

<400> 3563

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<210> 3564

<211> 796

<212> DNA

<213> Homo sapiens

<400> 3564

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<210> 3565

<211> 834

<212> DNA

<213> Homo sapiens

<400> 3565

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aataatactg gaaattctac actgaaacct ncagtacctt agaggtaaga ctcanggcc  780
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<210> 3566

<211> 772

<212> DNA

<213> Homo sapiens

<400> 3566

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<210> 3567

<211> 875

<212> DNA

<213> Homo sapiens

<400> 3567

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 acaactgcta gacgatgtag tacaaagaga ctcgtcaatg gcggactttc accacaaatg 780
 gagggatttt gactggatct attgacaatc ctggaacaat gcaatgcccc tactnagaaa 840
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<210> 3568

<211> 772

<212> DNA

<213> Homo sapiens

<400> 3568

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 gcaactgatg tcatggcatc accagctatg agtggtcact cagcccaagc agcaaaggga 660
 aagtgggtgga gatgcanggt gttagaacac caaccttaca gctctctgcg atgcaagaag 720
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<210> 3569

<211> 873

<212> DNA

<213> Homo sapiens

<400> 3569

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tatgtggggg gccatgttan ccaactaaatc tgaactttta ccctgcttcc atcatggatt  780
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<210> 3570

<211> 737

<212> DNA

<213> Homo sapiens

<400> 3570

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gccgtctaca ccaatggaac catacgaaca gcctacacct acaaccccga gcctcagatg  180
tacgccccca gcagcacggc ttcttacttc gaggccccag gcggtgcccc ggtgaccgtg  240
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ggggggagcc ccacgtctc cagcgcggga gcctatctca tccacggggg gatggacagc 360
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 gataattatg aaacagcgga aggtgtgagt ctccccagaa gttctcttta caaccactac 480
 cttcggcact gccaggagca caagctagac ccagtgaacg cgcctcctt cgggaaactg 540
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 taccattact atgggattcg tctgaagccg gactcaccac tgaaccggct gcaggaggac 660
 acgcagtaca tggccatgcg gcagcagccc atgcaccaga agcccangta ccggnacagc 720
 cagaagacgg acagnct 737

<210> 3571

<211> 840

<212> DNA

<213> Homo sapiens

<400> 3571

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<210> 3572

<211> 514

<212> DNA

<213> Homo sapiens

<400> 3572

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gggattgatt gagccctgga aggtaaggct acagtgagtc atgatgggtg gcanancaag 480
accctgtttc tttctttctt tctttctttc tttt 514
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<210> 3573

<211> 849

<212> DNA

<213> Homo sapiens

<400> 3573

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gacttctccc tggaagcaga caccagggat cgtcactccc gtggatgac aaaggcgcct 420
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 tttagcgcac acttctgccc ancacctgag taatgtgatt cttcanaatt ggcccgggccc 780
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<210> 3574

<211> 725

<212> DNA

<213> Homo sapiens

<400> 3574

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<210> 3575

<211> 710

<212> DNA

<213> Homo sapiens

<400> 3575

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<210> 3576

<211> 814

<212> DNA

<213> Homo sapiens

<400> 3576

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<210> 3577

<211> 743

<212> DNA

<213> Homo sapiens

<400> 3577

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cangccggat gcanagtggc gatataatta tcagaaagat tattaaagtg tgtccagttt 720
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<210> 3578

<211> 812

<212> DNA

<213> Homo sapiens

<400> 3578

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<210> 3579

<211> 725

<212> DNA

<213> Homo sapiens

<400> 3579

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caaacggagg ttccagtacg aagaagaagt gaaggcgaat ccacacaatt atgatgcatg	660
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<210> 3580

<211> 731

<212> DNA

<213> Homo sapiens

<400> 3580

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<210> 3581

<211> 875

<212> DNA

<213> Homo sapiens

<400> 3581

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<210> 3582

<211> 816

<212> DNA

<213> Homo sapiens

<400> 3582

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<210> 3583

<211> 713

<212> DNA

<213> Homo sapiens

<400> 3583

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<210> 3584

<211> 666

<212> DNA

<213> Homo sapiens

<400> 3584

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<210> 3585

<211> 781

<212> DNA

<213> Homo sapiens

<400> 3585

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<210> 3586

<211> 489

<212> DNA

<213> Homo sapiens

<400> 3586

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<210> 3587

<211> 819

<212> DNA

<213> Homo sapiens

<400> 3587

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 gatgggaaaa gattattaca agattcttgg gatcccatcg ggggccaacg aggatgagat 180
 caagaaagcc taccggaaga tggccttgaa gtaccacca gacaagaata aagaacccaa 240
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 ggagatctac catggcttca ccaagcgc atgaatcaca aggcgtcgcc ttaaccctga 720
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<210> 3588

<211> 664

<212> DNA

<213> Homo sapiens

<400> 3588

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ccttggggcgc cttttgcgaa tgcgacttcc ggcccgaactt gccgggtctg gagtgtgacc  180
tggtcagca cctggccggc cagcatctgg ccaaggcgct ggtggtgaag gcgctgaagg  240
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ctttcctggg ctctcctgg gtggtatacg ggaccaatta ccgcaaagcc atcttcatct  600
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aact                                             664
    
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<210> 3589

<211> 816

<212> DNA

<213> Homo sapiens

<400> 3589

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ctggggactc ctaaagtgtat ctatggctgg aatgatatat actgaaatga ctggaaaatt  180
gattagtcca tactacaatg tgacatactg gccctctgg tataattgagc ttgcccttgc  240
    
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<210> 3590

<211> 828

<212> DNA

<213> Homo sapiens

<400> 3590

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 tagaatcttc tagtaaaaaa tatctgccac cattttagat ttaagcattt gcctatgggg 180
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 atttctgatg gtaaccaa atagatgnata tctctactc ccattactgg ctctttcccc 720

ctactatggc ttgnagattt tcaaaagata gaagtctagg caaaactgtn cagttcatta 780
aaagttggta ggatagtatn tctaaaatca gagatttggc ccctcctt 828

<210> 3591

<211> 769

<212> DNA

<213> Homo sapiens

<400> 3591

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aaaggaaaaa gaaatccaat gatgtgtcta cctttgggtga gaagaaaaca cgagcaacag 180
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<210> 3592

<211> 789

<212> DNA

<213> Homo sapiens

<400> 3592

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 gacaggctag ggaacagacc agaaatgaac tataaaggtc gatacgagat cacagcggaa 720
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<210> 3593

<211> 719

<212> DNA

<213> Homo sapiens

<400> 3593

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<210> 3594

<211> 841

<212> DNA

<213> Homo sapiens

<400> 3594

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<210> 3595

<211> 826

<212> DNA

<213> Homo sapiens

<400> 3595

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acttgctcta tggtttcttt tttgcttcat tgcaggatga tgcactgngc ctttatgttt 780
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<210> 3596

<211> 781

<212> DNA

<213> Homo sapiens

<400> 3596

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<210> 3597

<211> 759

<212> DNA

<213> Homo sapiens

<400> 3597

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acagcaacta caacaacagc agcagttacca ccaccnccac gccagcagc cagctgcagc 720

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759

<210> 3598

<211> 357

<212> DNA

<213> Homo sapiens

<400> 3598

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<210> 3599

<211> 659

<212> DNA

<213> Homo sapiens

<400> 3599

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<210> 3600

<211> 778

<212> DNA

<213> Homo sapiens

<400> 3600

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<210> 3601

<211> 767

<212> DNA

<213> Homo sapiens

<400> 3601

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gacaacttga cttgtgctgc caaaacttga tangaaacat taccggggg aaaaccactt 720
gcttttcctt ggttnctaata cagggtggga aanactggta aattttt 767

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<210> 3602

<211> 714

<212> DNA

<213> Homo sapiens

<400> 3602

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atatttatgt caatctggct acttttctag tatgttcagt ggttcttgga aagaatccag 60
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tgcatttggt tcaactgtatc gagatgatgt cttgataaag cccagtcgag ttgttgccat 180
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gaaggaaaca gttaatgtga aaactgtatg tggctattac acatcagcag ggacctatgg 300
attagattct gtaaagaaaa agtgccttga atggcttcta aacaatttga tgactcacca 360
gaatgttgaa ctttttaaag aactcagtat aaatgtcatg aaacagctca ttggttcac 420
taacttattt gtgatgcaag tggagatgga tatatacact gctctaaaaa agtggatggt 480

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ccttcaactt gtgccttctt ggaatggatc tttaaaacag cttttgacag acacagatgt 540
 ctggttttct aaacagagga aagattttga aggtatggcc tttcttgaaa ctgaacaagg 600
 aaatccattg ggtcagtatt cagacattta aggttacaat atattatcag tgatctggct 660
 tctgccaaga attattggac caagaatctg gnantacctt canaaatggc tcct 714

<210> 3603

<211> 712

<212> DNA

<213> Homo sapiens

<400> 3603

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 aggctaccat gcaagtctga accgggctct acgcaccttc ctctctgctg agttaaacct 180
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 tgaaaacgaa gaggtaaaga agacaatgga ggccaccctg caaacatcc aggacattgt 480
 gactgtcgag gactttgatg tgtctgactg cttccagtac agcaactcca tggagtccgt 540
 caagtccacg gtctctgaaa cttcatgag caagcccagc attgctaaga ggagagccaa 600
 ccagcaagag acagagcagt tttatttcac aaaaatgaaa gagtcctgga nggcaggaac 660
 cttatnacca agttacaagc caagcatgac ctttttgc an aaaaacctgg ga 712

<210> 3604

<211> 732

<212> DNA

<213> Homo sapiens

<400> 3604

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aaaaaaaaa agcgggtgct gcttgctgca ggctctgggg agtcgccatg cctacaacac   60
agcagtcccc tcaggatgag caggaaaagc tcttgatga agccatacag gctgtgaagg  120
tccagtcatt ccaaataag agatgcctgg acaaaaacaa gcttatggat gctctaaaac  180
atgctttctaa tatgcttggt gaactccgga cttctatggt atcaccaaag agttactatg  240
aactttatat ggccatttct gatgaactgc actacttgga ggtctacctg acagatgagt  300
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gagagccaac agatgaagaa acaactgggtg acatcagtga ttccatggat tttgtactgc  600
tcaactttgc agaaatgaac aagctctggg tgccaatgca gcatcagggg acatagcccg  660
agatngagaa aaangagaac gaagaaagac aaggaactgg agaaattttt agtggggaaa  720
caaaattttg gn                                                    732

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<210> 3605

<211> 744

<212> DNA

<213> Homo sapiens

<400> 3605

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gaaagtgtgt gaaattcatt ttcataaat caacaacaaa atggtggaat gtaagaaagc   60
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ctacggaatg gacgccttca tgctgggcat cggcatgctg ggttaccag gtttccaagc  180
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cattcctctc actgcctacg gaccaatggc ggcggcagcg gcggcagcgg ctgtggttcg  360
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ccaggactcg ggggtcagca gttacatcag cgccgccagc cctgccccca gcaccggctt 540
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 aggggacggt ggcaggagcg ccccaacctg caactgactg aggaccacga gtgagccaac 660
 gagggggcgg gagacctnac cgcagccgnc gcccttcctt gcaacgactt ggacccgnta 720
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<210> 3606

<211> 833

<212> DNA

<213> Homo sapiens

<400> 3606

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 cctcggaagt gaatctgagc ttctagtcac tattggagcc actgtaccta ctggctttga 480
 gcaaacagct gcagatgaag tcagagagaa acttgggtca tcatgcaaaa tcagcagaga 540
 ccgtggcaag atatattttg tcatttcagt ggaaagtctg gcacaggttc attgtctgag 600
 atcagttgat aacttatttg tgggtggttca ggagtttcaa gattaccagt tcaaacaac 660
 aaaggaagaa gttctaaagg attttgaaga cttggctgga aaactccatg gtcaaacc 720
 ttaaaagtgt ggaaaattaa tgccagtttt aaaaagaaaa aagcaagcgc aaaaagatna 780
 atcagaattc aagtaaggag aagattaatn atggncaaga agtcaaaatc atc 833

<210> 3607

<211> 823

<212> DNA

<213> Homo sapiens

<400> 3607

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attgctgggt caaatggtag ttctgtttta acttctttga gaaatctcca aactgctttc 60
acagtggctg aactaatttg catttccatc agtgtaggcg cattctacac tgcactggct 120
tctacagtgt tgaagcattc cgtttttccc acagcctcac cagcatctgt tatttttttg 180
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gcatttatct gattagtaat gttgagcatt tttcatgtt tgtaaccgc ttgtatgttg 300
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ccacacctgg cccgagttac ttggttttcg tttctgaatt ggtttaattc cttatagatt 720
ttggacatta gaccttttcc agatgcccag tttgggaata tctctccatc ttaggtgtgt 780
gntactggat tgaagtcctt ttgcgggcaa aactcttant tga 823

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<210> 3608

<211> 737

<212> DNA

<213> Homo sapiens

<400> 3608

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tcttgcccc aagtcctcaa aagtgcagag gcagcggctg cagcatccag ccagcttgga 120
tgtctggcct acttccagga ctctgaagaa acagttacaa gcaggatgct tttcccaacc 180
tctgcgcaag aatcttcccc tggcctccca gatgcaaatg acttgtgcct tggcctgcag 240

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tccctcagtt tgacaggctg ggaccgaccc tggagcacc aggactcaga ttcctcagcc 300
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 agcagccccct ctgactcaga caccagtggc ttcagctctg gatcagatca tctctcagat 540
 ttgatttcaa gccttcgcat ttctccacct ctgcccttct gtctctgtca gggggtgggc 600
 ccagagaccc tttaaagatg ggggtagggt ctcgatgga ccaagagcaa gctgctcttg 660
 ctgcagtcac ttccttccca accagtgcct caaagagatg gccaggagct tctgtgtggn 720
 catnctggga cctcttn 737

<210> 3609

<211> 832

<212> DNA

<213> Homo sapiens

<400> 3609

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 caagcgacgc cccacctgcc ccgagctcac cattttcttt cgcgctggct gcagctgacc 180
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 tctccctgaa aagtccagg tgcctttttg cttcctgcaa aagaaaggaa gcgaaagaga 420
 agaccatgtc catagccctg aagcaggtat tcaacaagga caagacctc cgaccaaga 480
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 ggggtggcagt acatgtggtg gacttcttca atcgatcaa cctcatctat ggcaccatct 660
 gtgagttctg caccgagcgg acctgtcctg tgatgtcaag gggccccaaa tatgagtatc 720
 ggtggcagga tgatctcaag tntaagaagc caacancgt tgccagcttc ccagtacatg 780

aaccttctta tggattggat tgaggttcan atcaacaacc agggaaatat tt 832

<210> 3610

<211> 836

<212> DNA

<213> Homo sapiens

<400> 3610

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 tttaaaaatt accttttttg atcagtgggt aaaagttaaa gggatcttta atttttgata 420
 tattcaagtt aattttctaa atgtgaatca gtccttggac tgcaactata tattcaccta 480
 caaaatccca atcaaaaaat tacatgagcc tgtcaagcag atcttttagtt ttccacttca 540
 cacaagatcg ttaatgttct aaattaatct attcacttag atgatttttg tcagttctta 600
 aatgggatat aataaattta gcattttcat cttacaagc aaaagagtta aaaaacaaaa 660
 caaacactac tccaagccaa atacattcta nctgggtaat tccagacttg tccaagtgg 720
 ttccccaacc tcttttncac tggtaatttc tttcatgca ggcagaatat aggggtgcca 780
 accctgtgag ttttacatat gaacttggat aggggaacct gaaccagtc aggaac 836

<210> 3611

<211> 797

<212> DNA

<213> Homo sapiens

<400> 3611

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 ggaaaactta cttattgat ctacttcata tgtagaagaa gagatgcctc agattgaaac 180
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 atttataaag cttgggaaan gcggaatgaa caggatttct atgcagcagt tgatgctttn 720
 gaaatgaatt taaagttcct ccatttcaag aatggatttt tagnttcctg ggattttcag 780
 atgaagagaa aaccnt 797

<210> 3612

<211> 686

<212> DNA

<213> Homo sapiens

<400> 3612

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 caagccctgg agggacagga aagccagaaa tggacttcgt gagactcgct cgactgttcg 120
 ccagggcccg ccccatggga ctgttcatcc tgcaacacct ggacccctgt agagccaggt 180
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gccggagaga caccctgtac tgggtacttct tgcagtgcaa acacctgac aaggaaggga 540
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 ccatggagag caactacacg gtgctgattg ggggctgcng gcgggttggc tacctgaaga 660
 angncttcaa cctctacaac caagat 686

<210> 3613

<211> 792

<212> DNA

<213> Homo sapiens

<400> 3613

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 aaggcgattt gaacgcgatt gcaaagaggc ggacagggcg cagcagtact ttgagaaaat 360
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<210> 3614

<211> 715

<212> DNA

<213> Homo sapiens

<400> 3614

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gccagcatct gccagagcgg ccccgccgct gcccgtgtg cgcgccacct ttcggcnaaa 660
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```

<210> 3615

<211> 733

<212> DNA

<213> Homo sapiens

<400> 3615

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 cagagggcaa gtcactccct tcttcaccca gttcaccatc cccacctgcc ttcagaaagt 660
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 aagangggat tca 733

<210> 3616

<211> 860

<212> DNA

<213> Homo sapiens

<400> 3616

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 gaatgtcagc ttgcttctgt cttgcaaaga ttgcaaattc aatggtgagc acatggacag 180
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 aagttagaac tttggataac ttaaatacctg atgtgcgact cattcttgaa gaaatcacca 540
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 tgagagccat acgggtactt cagaagaacg gacatgtgcc aagtgatcca gctcttttta 660
 aatcttatgc tgaatatggc cactttgtgg acattaggat agcagctttg gaagcagttg 720
 gtgattatac taaagtgggc cagaagttat gaagaactgc aattggctac ttaatatgat 780
 tcaanaatga ccctgtaccc tatggtaagg cntaagatct tnaacatggg ggacttagaa 840
 cccaccattt acttaagaac 860

<210> 3617

<211> 712

<212> DNA

<213> Homo sapiens

<400> 3617

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caacagcttc gtgcctggga ggctgaaaaa tacaatgaga ttcgaaacca ggaacaaaaac 180
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caaaacctcc agtggctgaa agaagaaatg gaaaccaa attagccgttg gcagaaggaa 600
caagagagta tcattcagca gttacagacg tctcttcatg ataggaacaa agaagtggag 660
gatcttaatg caacattgct ctgcaacttg gccaggcana atgagatacn na 712
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<210> 3618

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3618

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gcttgcgctt tcttgtaaac tggagcgaga attccgttgt gtggaacttg ctgatcta at 180
gactcaaaat gctgtgaatt tagccattaa atatgcttct cgctctcgga aattaatact 240
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<210> 3619

<211> 628

<212> DNA

<213> Homo sapiens

<400> 3619

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 tgcctgtgcg ggcctcgctc ccgcgcccag ccctcggtgc tgcctccgac agcgccgcgc 180
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<210> 3620

<211> 668

<212> DNA

<213> Homo sapiens

<400> 3620

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tgcagcaggt gttccaggca cctcgccggc ctggcattgg cactgtgggg aaaccaatca  180
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tgcaagccct ggatgtggcc atgaggcacc tggcatccat gaggtacacc cctgtgggcc  600
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<210> 3621

<211> 629

<212> DNA

<213> Homo sapiens

<400> 3621

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atggggcatg gaggagaagg cggcggccag cgccagctgc cgggagccgc cgggcccccc  180
gagggccgcc gccgtcgcgt acttcggcat ttccgtggac ccggacgaca tccttcccgg  240
    
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ggccctgcgc ctcattccagg agctgcggcc gcattggaaa cccgagcaag ttcggaccaa 300
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 cttccagaat gggctgtgct atgagtacat gcagggtgtg gccctggagc ctgagcacat 540
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<210> 3622

<211> 700

<212> DNA

<213> Homo sapiens

<400> 3622

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 gtgggaaaat tcgccgcacg gaggccgaaa gcgagagggg ctgcgccgct atgccgggag 360
 ctgagtccca tataagccgc cccagccat cgccccagc cggcttcggt cccctgagcg 420
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<210> 3623

<211> 848

<212> DNA

<213> Homo sapiens

<400> 3623

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agtcaaaacg gatgtaaata agattgagga atttcttgaa gaagtcttat gccctcccaa 480
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<210> 3624

<211> 479

<212> DNA

<213> Homo sapiens

<400> 3624

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cttccttttt caatagtaat atttaaacc acccttgacc aattgtttgc ccaaatactt 180

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ttgtcatttg gagtcagtgg aaaatccagc acaccaagca ccagtcttct tctgaggcaa 240
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<210> 3625

<211> 750

<212> DNA

<213> Homo sapiens

<400> 3625

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aggcttgga tgcantggca tgatctcagc tcacggcagc ctctgcctct tgggctcaag 660
cgattctcct gcttcagctt tccaagtatt tgggaccaca ggcgccacca caggcctggc 720
taatggtttt gggttgnttt tgggtananac 750

<210> 3626

<211> 879

<212> DNA

<213> Homo sapiens

<400> 3626

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aggaagaaaag agaaaaagag aaagaaacag aaagaacagg caaaagctga aagggtcatg 240
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aataggggga tgggccattt aatggccttc cacttaagat gggggtaata nccccggggg 840
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<210> 3627

<211> 703

<212> DNA

<213> Homo sapiens

<400> 3627

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gatctgctct tcgccgaggg gaccgcagcc tacgcgcgcg gggactggcc cggggtggtc 180
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cgcacccagt gtgccgncga cttcccgtgg gagctggacc ccgactggtc ccccagcccc 300
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<210> 3628

<211> 720

<212> DNA

<213> Homo sapiens

<400> 3628

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 agtcctatt tatttgaaat ctttaatagt gatagtgatc ctcatggaat ttctcacgtt 180
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<210> 3629

<211> 847

<212> DNA

<213> Homo sapiens

<400> 3629

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aggatgctgc atttggacct aatatgaatc gacaatttgg attgttgaac ttgaaggctt  180
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tggacttttt gacatgaatt ttactacttc acaaatgaag aatgatgnta tgaagtaccg  780
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taatggn                                           847
    
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<210> 3630

<211> 773

<212> DNA

<213> Homo sapiens

<400> 3630

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 cccccagggc ttcantggac ctttctgtga acacccccca cccatggtcc tactgnagac 720
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<210> 3631

<211> 834

<212> DNA

<213> Homo sapiens

<400> 3631

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 atatggaaaa tagtcaaaga tggagaagaa gaaattgggtt atgcagttga ctttaaccnc 780
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<210> 3632

<211> 773

<212> DNA

<213> Homo sapiens

<400> 3632

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 gattggtcca attttaaaga ggaaattacc aggatcagat gtttctggaa gactcatggg 720
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<210> 3633

<211> 780

<212> DNA

<213> Homo sapiens

<400> 3633

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<210> 3634

<211> 765

<212> DNA

<213> Homo sapiens

<400> 3634

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gtacggcttt ctgattggtg agtgaaaaag taacttgaga cacgacctaa gttgaagagt 540
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<210> 3635

<211> 782

<212> DNA

<213> Homo sapiens

<400> 3635

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<210> 3636

<211> 888

<212> DNA

<213> Homo sapiens

<400> 3636

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<210> 3637

<211> 676

<212> DNA

<213> Homo sapiens

<400> 3637

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aagtcgcctt gaagaaattg cagaacttgt ggcatcatct ttaccttcac ctcttcgtcg 180

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<210> 3638

<211> 786

<212> DNA

<213> Homo sapiens

<400> 3638

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ggtaat

786

<210> 3639

<211> 827

<212> DNA

<213> Homo sapiens

<400> 3639

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<210> 3640

<211> 786

<212> DNA

<213> Homo sapiens

<400> 3640

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<210> 3641

<211> 751

<212> DNA

<213> Homo sapiens

<400> 3641

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 agctctggcc tagaggggca ggatgtagca gcatctggga ggggtaggtg gaggagcttc 660
 gccaaaggcat cctttcctca ggaggcaatg tgcancttca gctcagggtcc ctggaagcan 720
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<210> 3642

<211> 865

<212> DNA

<213> Homo sapiens

<400> 3642

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 gtagagatgg ggttttgcca tgttgttccg gctggtcaca aactccaggg ctcaagcaat 180
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 tatcactcat gcaagactct aaattcctta aaggcaggga tcatgtatat ttgatcact 720
 ggtgnatcct cagcacttca catgggtgct gtcacataaa tatttggtaa atgacttctt 780
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<210> 3643

<211> 818

<212> DNA

<213> Homo sapiens

<400> 3643

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agacatggaa ctggcccctt tccgaatttc ttcaaaagnc ttttacgaat ggtcttgcac 780
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<210> 3644

<211> 773

<212> DNA

<213> Homo sapiens

<400> 3644

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attctttttg gcatccatgt cagaagacaa tcgcccttta actggacttg cagctgcaat 120
tgccggagca aaacttagga aagtgtcacg gatggaggat acctctttcc caagtggagg 180

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gaatgctatt ggtgtgaact ccgcctcatc taaaacagat acaggccgtg gaaatggacc 240
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<210> 3645

<211> 872

<212> DNA

<213> Homo sapiens

<400> 3645

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gccattggtc ccatcattct tgtgggggaa aaattctagt attttgatta tttgaatctt 780
acagcaacaa ataggaactt ctgggcaatg agacttcttg accagtgaat caccagccga 840
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<210> 3646

<211> 523

<212> DNA

<213> Homo sapiens

<400> 3646

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<210> 3647

<211> 726

<212> DNA

<213> Homo sapiens

<400> 3647

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aaccgaatcc ggattctcat tgagaatgga gtagctgagc ggcaaagatc tctccttggt 180

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<210> 3648

<211> 861

<212> DNA

<213> Homo sapiens

<400> 3648

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<210> 3649

<211> 830

<212> DNA

<213> Homo sapiens

<400> 3649

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<210> 3650

<211> 689

<212> DNA

<213> Homo sapiens

<400> 3650

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<210> 3651

<211> 737

<212> DNA

<213> Homo sapiens

<400> 3651

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gttgctgaaa aaatcctatt tgttggagaa tctgtccaga tgtttgagaa tcaaatgtg 480
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aacctgacta gaaaaggatc ctttttgaaa aaccaggaag acacttttgc tgcagagctg 540
 caccgtctca agcagcagcc actcttcagc ttggtggact ttgaacaggt ggtggatcgc 600
 attcgcagca ctgtggctga gcatctctgg aagttgatgg tagaagaatc cgatttactg 660
 ggtcancatga agatcattaa agactttttac cttcttggga cgtgganaac tggttcangc 720
 cttcatttga cacagtt 737

<210> 3652

<211> 733

<212> DNA

<213> Homo sapiens

<400> 3652

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 gggcaaacag tgagtggggt tcagcgtaga ctctggacca ggagaggccc gcggtgaccg 180
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 atgaaacat gacagaaaag ctggtcaagt tcatgaaatg tgggtggcggc ttgctcatag 660
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 ctgggaacct tng 733

<210> 3653

<211> 654

<212> DNA

<213> Homo sapiens

<400> 3653

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ggagccgcgg acagagacgc gtgcgcaatt cggagccgac tctgggtgcg gactgtggga 180
gctgactctg ggtagccggc tgcgcgtggc tggggaggcg aggccggacg cacctctgtt 240
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tggcagaagg ttttctccca gaggatggaa gtggccgcat tgttggtgtt caggacttgc 540
tggatcanga gtcagtgtgt gtggccacag cctctggaga cgtcatactc tgcagnctna 600
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<210> 3654

<211> 860

<212> DNA

<213> Homo sapiens

<400> 3654

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atgcggtccc gggttctgtg gggcgccgcc cgggtggctct ggccccgccg ggccgttggc 60
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tgatcctgga agtaactgca ggagttggag gtcangaggc aatgttgttt acatcagaga 420
tatttgatat gtatcagcaa tatgctgcat ttaaaagatg gcattttgaa accctggaat 480

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attttccaag tgaactangt ggccttagac atgcatctgc cagcattggg ggttcagaag 540
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 tgggggggca gcatgtaaat ccacggacag tgcttgtccg gatggtcac tttcaacagg 780
 ngtggttctg aatgcaacaa gagagatctc acttaaaaat aagacttgct ttgacaangt 840
 acctgcaaac tgtcagntgc 860

<210> 3655

<211> 782

<212> DNA

<213> Homo sapiens

<400> 3655

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 cactggccat gacgagcggc gcaaccagggt accggctgag ctgctcgctc cggggccacg 180
 agctggacgt acggggcctg gtgtgctgcg cctatccgcc gggagccttt gtgtccgtgt 240
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 cactggacag tccaatgcca ctttatattc taaaaggcca caaaaatact gtttgtagtc 480
 tatcatctgg aaaatttggg acattactta gtggttcacg ggacaccact gctaaagtct 540
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 aagatcttac ctgaacaggg cttaatgttg actggatcan caggcaagac tgttaaactg 660
 tggaaggctg gaagatgtga agaggacttt ttcagggcac gaagactgtg taagaagttt 720
 ggcaattttg agtgaaacaa gaatttcttt cctgngccaa atgaangctt agtatattaan 780
 aa 782

<210> 3656

<211> 774

<212> DNA

<213> Homo sapiens

<400> 3656

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aacagcacag ctaacttgga ggatcctgag gtgggtgatg ctgaaagcat ggcgatctca  180
gagccgatca agggcagcag aaagccctgt gtgaataagg aggagtggc tttgaagaag  240
cccatggcga aatgtgcctg gaagggtccc agagagccac ctcaggatgc ccgggcagaa  300
gccgagagcc caggaggcgc ctctgagtca gaccaagatg gtggccatga aagcccacca  360
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aaggtgagct tgggccctgt ctctacgtc ttggttgact cagaagatgg caggaagaag  480
ccggtgatgc caaagaaagg gccaggctca agaaggagg catcagatca gaaggcccct  540
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aaggctctcc tcggcgtgcc ccaatgaatn cagaaaggnt tgatctgggg gaccacccat  660
acttgaggag ttgaaagaac aaggaagacg tnccaagtca accaagtttc tctctttgtc  720
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```

<210> 3657

<211> 870

<212> DNA

<213> Homo sapiens

<400> 3657

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agacttctct caggaggagt gggaatgcct gaatgatgat cagagagatt tatacagaga  180

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tgtgatgttg gagaattaca gcaacctggt ttcaatgggg cattctatit ctaaaccaaa	240
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aggccagtgg ccagtcctgg aatcaagatg tgagaccaag aaattatttc tgaagaaaga	360
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tcaccatcca tccttcacat tacagcaaat cattaacagt aaaaagaaat tctgtgcac	600
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ctcactcatc atcagaaaat tcatactggc aagaaacct ttgaatgtaa ggaatgtgga	780
aaaaccttta ttggggcttc anaccttact cgacatcncc ggaattcaca ctgggtgaga	840
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<210> 3658

<211> 784

<212> DNA

<213> Homo sapiens

<400> 3658

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aagagcatca cgctgcccc cgacgagatc ttccgcaacc tggagaacgc caagcgcttc	120
gccatcgaca taggcgggtc gttaccaag ctggcctact attcaacggt acagcacia	180
gtcgccaagg tgcggtcttt cgaccactcc ggaaaggaca cagaacgtga acatgagccg	240
ccctatgaga tticagttca agaagagatc actgctcgac tgcacttcat taagtttgag	300
aatacctaca tcgaagcctg cctggacttc atcaaagacc atctcgtcaa cacagagacc	360
aaggtcatcc aggcgaccgg gggcggggcc tacaagtca aggacctcat cgaagagaag	420
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cggttcaga ccaaccaccc ccacattttc ccctatcttc ttgtcaatat cggtctgga	600

gtctccatcg tgaaggtgga gacggaggac aggttcgagt gggtcggcgg cagctccatt 660
 ggaggcggca ccttctgggg gcttggcgct ctgctcacca aaacgaagaa gtttgacgag 720
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<210> 3659

<211> 764

<212> DNA

<213> Homo sapiens

<400> 3659

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 cgcgctgctg cctcagcacc atggtgccc aggtcccagc ggctccgcgc cagatcccgc 180
 ccactacagg gagcgagtca aggccatgtt ctaccagcc tacgacagct acctggagaa 240
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 agggattggg accttcattg gtgaatttgc caccctgagc agcctnactg gtgacccggt 720
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<210> 3660

<211> 788

<212> DNA

<213> Homo sapiens

<400> 3660

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aagcaatatt tctttttctt ttgtgttata ttgtacttta ctgattcatt tactgggtgat 180
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gattacaggt gcccaccacc acaccgcta attttgnatt tttagtagcc atgtggtttg 720
ccatgttggc cagctggttc gactctgcct cagtganccc cactantcc aagtgtggat 780
acgggtga 788

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<210> 3661

<211> 738

<212> DNA

<213> Homo sapiens

<400> 3661

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ggagaggaaa gagagagaat ttattagatt atatacttgt cccatggcat accacgtata 180
tgtttaaata gggacacatc tccctatggt taactatact tataaacaac tttgatacac 240
attgcgtctt ttattctgtc acctgatatt ttagtgtatc tcaagttaca gattacatgt 300
gtccttaaac tatttctgaa ttggactta gttccatata cagaaagaac tttagaaaat 360

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tcattaattt ggatcttcta ttgatagcca taaatattat gtttatgtat tctaaaacct 420
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 ctaatttttg tatttttagt agagacgggg tttcaccatg ttgctangct ggtctcaaac 720
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<210> 3662

<211> 866

<212> DNA

<213> Homo sapiens

<400> 3662

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 aaaaaagaa ttggcttatt tgtcagagtt gccaccaca cctcttcatg tttcagaaga 720
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<210> 3663

<211> 816

<212> DNA

<213> Homo sapiens

<400> 3663

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ccctggggac ggctcctgcg tctgggcgcg gaggagggcg agccgcacgt cctcctgagg 180
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<210> 3664

<211> 874

<212> DNA

<213> Homo sapiens

<400> 3664

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 tcttactggt tcattactaa gatttaattt tgattttgtg aaatgcgaac gcttcaangg 780
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<210> 3665

<211> 801

<212> DNA

<213> Homo sapiens

<400> 3665

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 gagcagctct tcttgcgcta cctgcacctg ctggtgacca tgtcgactcc caggggggtc 480

t t c a c t g a a t c a g c c a c c c t c a c c c g g t t g g c c g c c a g c c t c g c c a g g a c t g c a c a c t c 540
t t c c t t a c t a g t c c c a a c g t c t a c c g t g g c c t g c t t g c c g a c t t c c a g g c c c t g c t g a g g 600
g c a g a g c a n g c c t c t g g g g a t g t g g a c a a g c t g c a c c c t g t c t g c c c g c t g g g a c g t t c a 660
a g c t g t g c c c t a t c c t g g c t a c a g c a c t g g c t t c g c c a a t g c a g t g t c t a a c t n a a c t g a 720
c t a c t a t c a a c t a g c g t c a c a a g t t c t a t g a n c a g a a g a t g a t c a t g a n g a t g a t c a t c c 780
t c g t g a g a g a a a a g c t t c a t g 801

<210> 3666

<211> 750

<212> DNA

<213> Homo sapiens

<400> 3666

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c g g a c t g c c a t t t t c a t t a a g a a c t g c c a c t t a g a g g t a c c a a a t a a a g g g t a t t t g c t 120
a c c t t t a a t a c t t g c c a g t t c a g g t t g g a g g c a c a g g c a g c a g a a g a a t g g a a g a a a t 180
g t t c t t a c a a c a t t t t c a c a g g a a t g t c c c a g t t a a t t t t g a a t g a a t g c c a a a a g c t 240
g a a t a t t c c a g t t t a t t c a a t g a t t t t g t t g a a t c t g a a t t t t t t t g a t t g a t g g g g a t 300
t c a t t a c t t a t c a c a t g t a t c t g t g a g a t a t c a t t t a a g c c t g g g c a g a a c c t c c a t t t c 360
t t c t a t c t g g t t g a a c g c t a t c t t g t g g a t c t t a t t a g c a a a g g a g g a c a a t t c a c c a t a 420
g t t t t c t t c a a g g a t g c c g a g t a t g c g t a t t t c a a c t t c c c t g a a c t t c t t t c t t t g a g a 480
a c t g c t t t a a t c c t t c a t c t t c a g a a g a a t a c c a c c a t t g a t g t t c g a a c a a c a t t t t c g 540
a g a t g c t t a t c a a a a g a g t g g g g a a g t t t c t t g g a a g a g a g t t a c c c a t a t t t c c t g a t a 600
g t t g c a g a c g a a g c c t g a a c g a t c t a c a a a c a c a g c t t t t c a a c t t t t t a a t c a t t c a t t 660
c t t g g g c a a n g a a n g t c a a c g g t t g g a c t t t c c t c a g g g c a a g a a t c t g a n g g t c t t t g g 720
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<210> 3667

<211> 857

<212> DNA

<213> Homo sapiens

<400> 3667

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<210> 3668

<211> 867

<212> DNA

<213> Homo sapiens

<400> 3668

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<210> 3669

<211> 865

<212> DNA

<213> Homo sapiens

<400> 3669

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attgggtttt aatgagaccc aaatggactc ttctcttaac aattcaagcn gtagnaccaa 780
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<210> 3670

<211> 852

<212> DNA

<213> Homo sapiens

<400> 3670

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<210> 3671

<211> 880

<212> DNA

<213> Homo sapiens

<400> 3671

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<210> 3672

<211> 845

<212> DNA

<213> Homo sapiens

<400> 3672

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<210> 3673

<211> 835

<212> DNA

<213> Homo sapiens

<400> 3673

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 tgttacaaac ctctactcc tcgaaaattc cttgatcctc tncatttcta ctgntggaac 780
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<210> 3674

<211> 882

<212> DNA

<213> Homo sapiens

<400> 3674

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 cttcttgagg atccaaaagc tgaagtggtc gatgaaattg cttgccaaac ttggcctgcg 720
 gaaggntggc tggatattta cagacctcgt cttaaaaaga taccgaaag ggtaccgctc 780
 cgcttcaagt cgaaatangc cacctatttt ctaagttcan aagaatgcat cactgcagga 840
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<210> 3675

<211> 885

<212> DNA

<213> Homo sapiens

<400> 3675

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gggtcccgcag acgactggaa cgattactgt gaacggttac cataccacgg tcttcggtga  240
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gaagctagag gaaacccttg cccagttccc ttgacagcct gggaagggtg ccacgttcac  600
aatcaacatc aaagtgaagc tggatttctc ctgccaggag aatctcctgc aggatctcag  660
tgatgatgga atcagtgtga gtggctttcc cctgtccagt ccttttcggc angtcgttcg  720
gccccgaatg ganggcaaac ctgtgaaccc acccgagagc aacaaagcag gcgactacag  780
ccacgtgaag accctggaag ctgtcctgac tttaaatact ntggaggccc gggccacact  840
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<210> 3676

<211> 886

<212> DNA

<213> Homo sapiens

<400> 3676

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cttgtacca gaggtgatga agcacgcaga tccccggatc cagggctacc ctctgatggg 180
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<210> 3677

<211> 844

<212> DNA

<213> Homo sapiens

<400> 3677

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<210> 3678

<211> 811

<212> DNA

<213> Homo sapiens

<400> 3678

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<210> 3679

<211> 702

<212> DNA

<213> Homo sapiens

<400> 3679

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<210> 3680

<211> 826

<212> DNA

<213> Homo sapiens

<400> 3680

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gaacagtcct ctcttttggga actcataaag actgaaaaca aggtcttaaa caaagtcate 360
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<210> 3681

<211> 824

<212> DNA

<213> Homo sapiens

<400> 3681

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824

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<211> 813

<212> DNA

<213> Homo sapiens

<400> 3682

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<210> 3683

<211> 822

<212> DNA

<213> Homo sapiens

<400> 3683

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<210> 3684

<211> 691

<212> DNA

<213> Homo sapiens

<400> 3684

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gattggcang tccaactgta atgaatgcag naccattttc tctctacgac gtggttttct 660
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<210> 3685

<211> 821

<212> DNA

<213> Homo sapiens

<400> 3685

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<210> 3686

<211> 817

<212> DNA

<213> Homo sapiens

<400> 3686

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<210> 3687

<211> 800

<212> DNA

<213> Homo sapiens

<400> 3687

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<210> 3688

<211> 816

<212> DNA

<213> Homo sapiens

<400> 3688

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816

<210> 3689

<211> 766

<212> DNA

<213> Homo sapiens

<400> 3689

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<210> 3690

<211> 598

<212> DNA

<213> Homo sapiens

<400> 3690

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<210> 3691

<211> 816

<212> DNA

<213> Homo sapiens

<400> 3691

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816

<210> 3692

<211> 912

<212> DNA

<213> Homo sapiens

<400> 3692

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<211> 845

<212> DNA

<213> Homo sapiens

<400> 3693

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<210> 3694

<211> 928

<212> DNA

<213> Homo sapiens

<400> 3694

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<210> 3695

<211> 877

<212> DNA

<213> Homo sapiens

<400> 3695

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<210> 3696

<211> 887

<212> DNA

<213> Homo sapiens

<400> 3696

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<210> 3697

<211> 754

<212> DNA

<213> Homo sapiens

<400> 3697

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<210> 3698

<211> 822

<212> DNA

<213> Homo sapiens

<400> 3698

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<210> 3699

<211> 929

<212> DNA

<213> Homo sapiens

<400> 3699

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<210> 3700

<211> 936

<212> DNA

<213> Homo sapiens

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<210> 3701

<211> 914

<212> DNA

<213> Homo sapiens

<400> 3701

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<210> 3702

<211> 894

<212> DNA

<213> Homo sapiens

<400> 3702

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<210> 3703

<211> 789

<212> DNA

<213> Homo sapiens

<400> 3703

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<210> 3704

<211> 891

<212> DNA

<213> Homo sapiens

<400> 3704

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<210> 3705

<211> 879

<212> DNA

<213> Homo sapiens

<400> 3705

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<210> 3706

<211> 864

<212> DNA

<213> Homo sapiens

<400> 3706

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<210> 3707

<211> 845

<212> DNA

<213> Homo sapiens

<400> 3707

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<211> 883

<212> DNA

<213> Homo sapiens

<400> 3708

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<210> 3709

<211> 848

<212> DNA

<213> Homo sapiens

<400> 3709

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<210> 3710

<211> 917

<212> DNA

<213> Homo sapiens

<400> 3710

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<210> 3711

<211> 827

<212> DNA

<213> Homo sapiens

<400> 3711

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<210> 3712

<211> 700

<212> DNA

<213> Homo sapiens

<400> 3712

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<210> 3713

<211> 857

<212> DNA

<213> Homo sapiens

<400> 3713

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tccacctaca gttccaaaag ggaccatctg caaagaggcc aatgtttatc cagcagaatg   360
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<210> 3714

<211> 745

<212> DNA

<213> Homo sapiens

<400> 3714

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cagtggactg ctgccggaca tggaactgga atcctcgaaa tcaccctctt aatgaancg   180

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atattgaaag aaattattgt gtttgtggag agttttatct ataaacatcc tcaagaggca 240
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acgtttctca ngaaaangga aaccc 745

<210> 3715

<211> 907

<212> DNA

<213> Homo sapiens

<400> 3715

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<210> 3716

<211> 864

<212> DNA

<213> Homo sapiens

<400> 3716

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<210> 3717

<211> 877

<212> DNA

<213> Homo sapiens

<400> 3717

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<210> 3718

<211> 950

<212> DNA

<213> Homo sapiens

<400> 3718

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 ccatgattaa ggaaaatctg gaaaaagatg gggccctcgt attctggatt tgcaattaga 840
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<210> 3719

<211> 810

<212> DNA

<213> Homo sapiens

<400> 3719

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 tgtttttggc caaagcagtt aaaggattta gtagcctaaa tgacaggctc ttgctccctg 180
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 accactgccca gggtttgatc ataggccgga ggatgaactg caatgtttgc gatgactttg 720
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<210> 3720

<211> 774

<212> DNA

<213> Homo sapiens

<400> 3720

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 accccatatg caagaatttc gaattgggag tgcgacttnt acttagaagg aacagccaca 720
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<210> 3721

<211> 743

<212> DNA

<213> Homo sapiens

<400> 3721

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tctacaccta ccctcggggc cggcgcgggg cccggcgcaa aagccactcg cacctttccg 660
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ccaattggcc cttaanctgt ctg 743

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<210> 3722

<211> 833

<212> DNA

<213> Homo sapiens

<400> 3722

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<210> 3723

<211> 843

<212> DNA

<213> Homo sapiens

<400> 3723

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843

<210> 3724

<211> 899

<212> DNA

<213> Homo sapiens

<400> 3724

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<210> 3725

<211> 847

<212> DNA

<213> Homo sapiens

<400> 3725

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<210> 3726

<211> 825

<212> DNA

<213> Homo sapiens

<400> 3726

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<210> 3727

<211> 892

<212> DNA

<213> Homo sapiens

<400> 3727

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 aattcgaatt ctttcattcc actgngtaaa gtgctagaca ttttccaatt aaaatttgct 840

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<210> 3728

<211> 820

<212> DNA

<213> Homo sapiens

<400> 3728

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<210> 3729

<211> 870

<212> DNA

<213> Homo sapiens

<400> 3729

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<210> 3730

<211> 806

<212> DNA

<213> Homo sapiens

<400> 3730

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<210> 3731

<211> 754

<212> DNA

<213> Homo sapiens

<400> 3731

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 ccaagaacct tcgagatctг cggтctgggg tctggttgaa agatggcgгc cctcactacc 180
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<210> 3732

<211> 839

<212> DNA

<213> Homo sapiens

<400> 3732

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atcctgcttt acatcctttt gaggtcccac gagaatatat aagagcttta aatgctacca   180
aactggaacg agtatttgca aaaccattcc ttgcttcgct ggatggtcac cgtgatggag   240
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aaaacttttg aatgtatgat agaaacttct gaattttaat ggngntttgg catttttgca   780
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<210> 3733

<211> 773

<212> DNA

<213> Homo sapiens

<400> 3733

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<210> 3734

<211> 808

<212> DNA

<213> Homo sapiens

<400> 3734

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 cccagggggc acatgggctg agcttaccta cctgaacaag cacaggcggt acgagatacg 180
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<210> 3735

<211> 701

<212> DNA

<213> Homo sapiens

<400> 3735

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<210> 3736

<211> 876

<212> DNA

<213> Homo sapiens

<400> 3736

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<210> 3737

<211> 836

<212> DNA

<213> Homo sapiens

<400> 3737

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<210> 3738

<211> 877

<212> DNA

<213> Homo sapiens

<400> 3738

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<210> 3739

<211> 857

<212> DNA

<213> Homo sapiens

<400> 3739

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<210> 3740

<211> 874

<212> DNA

<213> Homo sapiens

<400> 3740

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<210> 3741

<211> 931

<212> DNA

<213> Homo sapiens

<400> 3741

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<210> 3742

<211> 867

<212> DNA

<213> Homo sapiens

<400> 3742

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angaggctac agttcgggtg tgcagtgcta gatgacaaac tgtatgtggt tggaggaana 840

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867

<210> 3743

<211> 848

<212> DNA

<213> Homo sapiens

<400> 3743

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gatactaagt tagatggacc tatattacag attctattca tgaacaatgc tatttcaaag 420
caatatcatc aagaaataga ggaatttgta tcaaatttag taaaaagatt tgaggaacag 480
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<210> 3744

<211> 793

<212> DNA

<213> Homo sapiens

<400> 3744

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gatggttgta gtagaacaaa ttaaaaagtc aaaagattca tggntgtcaa atcctggaaa 720
cagtctacaa acacagcttg tggggggttg gcttctgttc naagtgcact gggaaaaaat 780
cctggcccgn ttg 793

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<210> 3745

<211> 590

<212> DNA

<213> Homo sapiens

<400> 3745

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acattgagaa ccttgaagga ccaganattt tttttgagga tgaactggtg tgtatcctaa 480
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<210> 3746

<211> 840

<212> DNA

<213> Homo sapiens

<400> 3746

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 caatttgtct tttccttttt tattaataatt atttttcctg cctgttgttg gatttgggga 180
 aattttttgt ttgtttttta tgatttgtat ttgactgaga gaaaccact gaagacgtct 240
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<210> 3747

<211> 806

<212> DNA

<213> Homo sapiens

<400> 3747

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<210> 3748

<211> 727

<212> DNA

<213> Homo sapiens

<400> 3748

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ggataatggg ggggtggggc cgttgggggg taaaggggca atagcgtcct ttcacaggct 180
aacctcggct cttcccagtc ctctggacta aaatggggaa cacattgggc ctggcaccaa 240
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<210> 3749

<211> 798

<212> DNA

<213> Homo sapiens

<400> 3749

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<210> 3750

<211> 869

<212> DNA

<213> Homo sapiens

<400> 3750

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aagtagaagc caaggagctg tcctttgttt tggattacat aaaccagtca cccaagtgca 180
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tctcttcaga gtgataacag tatncattta gatttatcng caggaatttt taatgatatg 840
gctgatcaaa ttgactacaa gntgatttg 869
    
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<210> 3751

<211> 803

<212> DNA

<213> Homo sapiens

<400> 3751

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<210> 3752

<211> 837

<212> DNA

<213> Homo sapiens

<400> 3752

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<210> 3753

<211> 778

<212> DNA

<213> Homo sapiens

<400> 3753

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<210> 3754

<211> 808

<212> DNA

<213> Homo sapiens

<400> 3754

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<210> 3755

<211> 797

<212> DNA

<213> Homo sapiens

<400> 3755

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<210> 3756

<211> 850

<212> DNA

<213> Homo sapiens

<400> 3756

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cagtgaacct gagagccact tacgatgcat tcttgaccgg gaggatgaca ccggcagccg 780

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<210> 3757

<211> 894

<212> DNA

<213> Homo sapiens

<400> 3757

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ccggagtgtg cagggtccct agaggccggt tcctggctctg tgctgctctc ctggaagcca 180
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<210> 3758

<211> 736

<212> DNA

<213> Homo sapiens

<400> 3758

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<210> 3759

<211> 767

<212> DNA

<213> Homo sapiens

<400> 3759

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<210> 3760

<211> 872

<212> DNA

<213> Homo sapiens

<400> 3760

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<210> 3761

<211> 826

<212> DNA

<213> Homo sapiens

<400> 3761

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atgatgatga tccacttcct attacgagac tggatatttg ttggaagaaa aggaccgtnt 780
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<210> 3762

<211> 818

<212> DNA

<213> Homo sapiens

<400> 3762

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aatgaagagc ttcgaaactt gtctttgtct ggccatgtgg gatttgacag cctccctgac 180
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<210> 3763

<211> 839

<212> DNA

<213> Homo sapiens

<400> 3763

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 gggctttaca tgtaggtatc aacttaccat gcatcagaga atttattcag gggagaaaca 180
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 cgggtgagaaa ccctacaaat gtaaggaatg tgggaaggcc ttcagtcagc gtgcacacct 480
 tgcccatcat aacagaattc atactgggta caaacctttt gaatgtaaag aatgtgggaa 540
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 tctggacact tactcagcat ctgagtattc acagnggtaa gaaacccttt tgaatgccac 780
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<210> 3764

<211> 722

<212> DNA

<213> Homo sapiens

<400> 3764

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 ttagcctggg gactcctaaa tgtatctatg gctggaatga tatatactga aatgactgga 180
 aaattgatta gttcatacta caatgtgaca tactggcccc tctggtatat tgagcttgcc 240
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 aataagttgg cgagctttac cctctcttc ttctnctac cctaccactg ttggaccant 660
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<210> 3765

<211> 746

<212> DNA

<213> Homo sapiens

<400> 3765

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tccatagcca tgcagtcttc agcaacacac ttaactttca aaaggacaag tggttttnc 660
aacaatttga atggtgctat tggaaagttc tanggtacct tctttccttg atgcctgggg 720
gatggaatag angatgaaga agaatc 746

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<210> 3766

<211> 840

<212> DNA

<213> Homo sapiens

<400> 3766

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tctgtctcgc acttcccagt ggccccagat gagccagtcc caagcatgtg gtggatcaga 180
acagattcct ggaatagaca tacagctgaa taggaagtat cacaccacac gtaagctttc 240
tactaccaa gattccccac agcctgttga ggagaagggtt ggtgctttca caaagataat 300
agaagccatg ggattcacgg gacctttgaa atacagtaaa tggaagatta agattgcggc 360
cctgcgcatg tatactagct gtgtggagaa aactgacttc gaggaattcc ttctaagggtg 420

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tcagatgcct gatacattca attcatggtt tcttataacc ctactccacg tctggatgtg 480
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<210> 3767

<211> 811

<212> DNA

<213> Homo sapiens

<400> 3767

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<210> 3768

<211> 857

<212> DNA

<213> Homo sapiens

<400> 3768

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gggctcgcag tgcaggaatc acagccatgg cccccaccct ccaggatttg gtcgatatgg  180
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ccttctctca atgtgggtga taaaatcacc aaaacactcc acttcactgg gcagttgcag  780
caggaaatgt taatgcattg ataagctttt ggnaactgnn tctaccctgg atatncagaa  840
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<210> 3769

<211> 873

<212> DNA

<213> Homo sapiens

<400> 3769

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<210> 3770

<211> 790

<212> DNA

<213> Homo sapiens

<400> 3770

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 gtcggcccca agaagagttg gaacccggca ttcacaaatc acctggaaaa ggggagccaa 720
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 gcccttccan 790

<210> 3771

<211> 753

<212> DNA

<213> Homo sapiens

<400> 3771

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<210> 3772

<211> 821

<212> DNA

<213> Homo sapiens

<400> 3772

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tgtttatcat gcaatctact tgggaagaaa tgattggctc agaagttggt tcgaaaactt 780
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<210> 3773

<211> 846

<212> DNA

<213> Homo sapiens

<400> 3773

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<210> 3774

<211> 860

<212> DNA

<213> Homo sapiens

<400> 3774

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<210> 3775

<211> 871

<212> DNA

<213> Homo sapiens

<400> 3775

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<210> 3776

<211> 834

<212> DNA

<213> Homo sapiens

<400> 3776

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<210> 3777

<211> 846

<212> DNA

<213> Homo sapiens

<400> 3777

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<210> 3778

<211> 788

<212> DNA

<213> Homo sapiens

<400> 3778

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<210> 3779

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3779

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<210> 3780

<211> 852

<212> DNA

<213> Homo sapiens

<400> 3780

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<210> 3781

<211> 831

<212> DNA

<213> Homo sapiens

<400> 3781

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<210> 3782

<211> 876

<212> DNA

<213> Homo sapiens

<400> 3782

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<210> 3783

<211> 862

<212> DNA

<213> Homo sapiens

<400> 3783

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<211> 845

<212> DNA

<213> Homo sapiens

<400> 3784

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<211> 793

<212> DNA

<213> Homo sapiens

<400> 3785

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<211> 664

<212> DNA

<213> Homo sapiens

<400> 3786

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<210> 3787

<211> 850

<212> DNA

<213> Homo sapiens

<400> 3787

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<210> 3788

<211> 667

<212> DNA

<213> Homo sapiens

<400> 3788

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<210> 3789

<211> 749

<212> DNA

<213> Homo sapiens

<400> 3789

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<211> 759

<212> DNA

<213> Homo sapiens

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<210> 3791

<211> 778

<212> DNA

<213> Homo sapiens

<400> 3791

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<210> 3792

<211> 863

<212> DNA

<213> Homo sapiens

<400> 3792

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<210> 3793

<211> 709

<212> DNA

<213> Homo sapiens

<400> 3793

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<210> 3794

<211> 856

<212> DNA

<213> Homo sapiens

<400> 3794

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<210> 3795

<211> 869

<212> DNA

<213> Homo sapiens

<400> 3795

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<210> 3796

<211> 811

<212> DNA

<213> Homo sapiens

<400> 3796

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<210> 3797

<211> 805

<212> DNA

<213> Homo sapiens

<400> 3797

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<210> 3798

<211> 797

<212> DNA

<213> Homo sapiens

<400> 3798

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<210> 3799

<211> 692

<212> DNA

<213> Homo sapiens

<400> 3799

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<210> 3800

<211> 784

<212> DNA

<213> Homo sapiens

<400> 3800

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<210> 3801

<211> 740

<212> DNA

<213> Homo sapiens

<400> 3801

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aatggacttg ggaanaaaga 740

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<210> 3802

<211> 784

<212> DNA

<213> Homo sapiens

<400> 3802

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<210> 3803

<211> 806

<212> DNA

<213> Homo sapiens

<400> 3803

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<210> 3804

<211> 695

<212> DNA

<213> Homo sapiens

<400> 3804

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<211> 745

<212> DNA

<213> Homo sapiens

<400> 3805

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<210> 3806

<211> 849

<212> DNA

<213> Homo sapiens

<400> 3806

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 gatacacagc cctcatgttt gctgcacttt ctggtaataa agacatcaca tgggtaatgt 480
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gactggatta ttacactaag cccanggac tgggtaaaga gccaaaactg cccccaaagt 660
 tggcaggccc gctgcacaaa attatcacca caacgaatct tcacctgtc aagatcgtga 720
 tgctttgtaa atgaagaatc ctcttgcttg cagaaagaag cagcccctga ataaatgcta 780
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 ggctttnaa 849

<210> 3807

<211> 770

<212> DNA

<213> Homo sapiens

<400> 3807

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 ctgctccgtg gtgctctatg accccctgaa aagggttggt gttaccaact tgaatgggtca 180
 caccgcccga gtcaattgca tacagtggat ttgtaaacag gatggctccc cttctactga 240
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 tgctgttcga ctctggtcta aaaagggtcc agaagtaatg tgccttcaga ctttaaactt 480
 tggaaatgga tttgctttgg ctctctgctt atcttttttg ccaaatactg atgtaccaat 540
 attagcatgt ggcaatgatg attgcagaat tcacatatct gctcaacaaa atgatcagtt 600
 tcagaaagtg ctttctctct gtggacatga ngattggatt anaggantgg aatgggcaac 660
 ctttggtaga gatcttttcc tagcaagctg ttcacaagat tgcctgataa gaatatggaa 720
 actgtatatt aagtcaacat ntttanaaac ttcaggatga ccattacntt 770

<210> 3808

<211> 692

<212> DNA

<213> Homo sapiens

<400> 3808

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aaaagaagaa acgcaggcgg ggcagaaaag aggagcccga aggtggtagc aggccggcgt 60
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gcaccgtggt caccattaag cagggtgtca ccgcgccagg ctggcgggg cagccccggt 180
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cggaagagga cagtaggag gttgaggcg ccgagggtgg ggtcgacgac naagacagcg 480
gagaggagag cgggtcggag gactgangct gtgacaaacc ctgtgccac gctgccttca 540
ctgccgggag actcanggt tgggggagac atgccctggt caccacttgc ggagactcan 600
ggcttggggg gagacatgcc ctggccacca ntggtgaacc agccgaagac aggaccccaa 660
cgcgccgctt acccggggac nccatggaac tt 692

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<210> 3809

<211> 850

<212> DNA

<213> Homo sapiens

<400> 3809

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aacctcgtgc tttctgcaga ggagaccgga ggcagaagg cagagtccag gcttagactg 60
cagttcctcg cttacctgtg cagtctaatt ttgagctgcc tctttgtagt cttaaaaggc 120
aggagcttcg tgttgtgggt ctgctaacc gtacgtttcc gtgggcaagt cgtgtgtact 180
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taaactacta aaggacaaaa atgagttcca caaacatgtg gagtttgatt tccttattaa 360
gggccagttt ctgcgaatgc ctttgacaa acacatggaa atggagaacg tctcatcaga 420

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agaagttgtg gaaatagaat acgtggagaa gtatactgca cccagccag agcaatgcat 480
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 agtgaaagcc ctacactgct gtanangtca tgctggaagt gtagattcta tagctgggtga 780
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<210> 3810

<211> 849

<212> DNA

<213> Homo sapiens

<400> 3810

aaagtccttg caccatgtag atcagcgctc cccactttgg catcccggcc ggccggggac 60
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 aattccaggt ggcaaacgg tgctgggtgga gctgactccc gacatccata tctgcggcat 180
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 gcctgccacc cagactcaga ccaccaccag aaccatcacc tcggagaccc agacaatcac 360
 aggttgccaa ttcaagactg cttatggcat gaaggacatg gagcggcatt taaaaattca 420
 cacgggagac aaacccata agtgtgaagt ctgtggcaag tgcttttagcc ggaaagacaa 480
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 gcccttcaaa tgccagatct gccctacgcc agccgcaact ccagccagct nctgtccacc 660
 tgcgatccca cacgggggac gcccccttc agtgctggct ctgtagcgcc aagttcaaaa 720
 tcagctcgga cttgaaaang cacattgcgg gtgcacttcg ggggagaacc tttcaagtgc 780
 aattctgcaa tgtccgntga ccatgaaggg gaaccttaag tcgcacatcc gtatcaagcc 840

cagcgggan

849

<210> 3811

<211> 793

<212> DNA

<213> Homo sapiens

<400> 3811

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gttggagcgg cgctgctcgg ccgcggacac acgagggacg cgcccgagga gctgcaggtg 60
gcagcccagg cgggccgaac ccgtcggccg gccgagcctg gagtattgcc taagtgtaat 120
cttgaacatg ggcggtgctg tgagtgtcgg tgaagacaat gaagagctga tagataattt 180
gaaagaagca cagtatatcc ggactgagct ggtagagcag gctttcagag ctatcgatcg 240
tgcagactat tatcttgaag aatttaaaga aaatgcttat aaagacttgg catggaagca 300
tggaaacatt cacctctcag ccccgatcat ctactcggag gtgatggaag ccctagatct 360
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gggcctcatt ctaggtcctt ttggtgtgaa ccatgggggtg gaacttcact cagatgtgat 480
agagtatgca aagcagaaac tggacttctt catcagaaca agtgatagtt ttgacaagtt 540
tgacttctgt gaaccttctt ttgttactgg gaattgcctg gagatttctc cggattgttc 600
tcagtatgat cgtgtatact gtggggctgg cgtgcagaaa gagcatgaag agtacatgaa 660
gaatcttctc aaagtgggag ggatccttgt catgccactg gaagagaagt tgactaagat 720
aacacgcaca ggtccttcac ttgggaaacc naaaagattc tgctggttct tttgctnctc 780
tgatccancc ctg 793
    
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<210> 3812

<211> 825

<212> DNA

<213> Homo sapiens

<400> 3812

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 actctaaaat aggtgatgat aatgaaaatt taacctttta attagaagta aatgagctga 120
 gtggtaaatt agacaacact aacgaatata atagtaatga tggtaagaaa ttaccccagg 180
 gtgaatcacg aagttacgaa gtcattggga gtatggaaga aaccttatgc aatatagatg 240
 acagagatgg aaatcgcaat gtccatttag aatttacaga aagagagagt aggaaggatg 300
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 aagaggaggt tttaaaagcc tccagagaag aaaaagtgtt gatggatgaa ggagcagtac 420
 ttaccctggc agccgacctt tcatcagcaa cactggatat tagtaagcaa tggagtaatg 480
 tcttcaacat tctgagagaa aatgattttg aacctaaatt tctgtgtgaa gttaaattag 540
 catttaaatg tgatggtgaa ataaagacat tttcagatct gcaaagcctt agaaaatttg 600
 ccagccaaaa atcttctatg aaagaattac tgaaagatgt actcccacaa aaggaagaaa 660
 taaatcaagg aggaagaaaa tatggaattc aagaaaaaag ggataaaacc ctaatagact 720
 caaagcatag agctggagaa atnaccagtg atggcttgag cttcctatct cttaaagaag 780
 taaaagttgc taagccngan gagatgaaaa cttagagact cagga 825

<210> 3813

<211> 743

<212> DNA

<213> Homo sapiens

<400> 3813

agcaaccatt gctagtaatt ctttaatgtg tataaattca atttcaggta taacaaatgt 60
 gatcatgaca tgaaaatatt ctagaataga tactgtatta aatattgccg tgtttacaat 120
 atgtaatatg tttttagccg atggatttaa acatgtagat tcaactagaa tccatttgtg 180
 atatttgtaa ataaaggtag aaatattaga tccatttctg cagaacttac tgtacagttt 240
 agttggagtg tagcactgaa gaactgtcag ctcagcgttg actgaggaga tagtgaaaat 300
 agcctataca cagcatcttg tgaaaagtac tggcagccgt ggttgcagca aataataggg 360
 caaaaaaat aataataggg tggtcggttc ctttcatct ccttcttctg aaaggaaaaa 420
 attgaattgg aacgttcaag tccagtttgt gttcagtcac aaaactgggc cagttgttaa 480

ccttacagaa tgagtcattgt ggccagacct tcaagtccaa ggccttcaga cactaaggat 540
 gggaaaatgg gtatttttct ttggagaaaa gctggaaata taaacatggc atttttaggt 600
 aaagctcttc cactagttga attttcatgc ncatattttt tcttaaccgt tggtgccagt 660
 naagcnaaga gtattatgat ggaaaaagac cagtccaagc cccatcggtc cggaatggga 720
 gcccatgggtc ttggctaata ggt 743

<210> 3814

<211> 812

<212> DNA

<213> Homo sapiens

<400> 3814

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 tcaatgtctt tggccgcaag ctacgggtta atggcagaaa cctcctttca gttgactttg 180
 atcgaacaac aaagacagaa aagatctatg acgaccaccg taaatttcta ctgaggatcg 240
 cctacgacac gtctgggcac ccgactctct ggctgccaag cagcaagctg atggccgtca 300
 atgtcaccta ttcattccaca ggtcaaattg ccagcatcca gcgaggcacc actagcgaga 360
 aagtagatta tgacggacag gggaggatcg tgtctcgggt ctttgctgat ggtaaaacat 420
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 tgggtacaag tcgganggtc ttattcaaat acagaaggca gactangctc tcagaaattt 720
 tatatgatag cacaagaagt cagntttacc tatgatgaaa cagcaggagt cctaaagaca 780
 gtaaaccttc agaggngatg gtttanttgc cc 812

<210> 3815

<211> 771

<212> DNA

<213> Homo sapiens

<400> 3815

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cgagtggcgg ccggagcctc gaaaagagat tctcagcgct gattttgaga tgatgggctt 180
gggaaacggg cgtcgcagca tgaagtcgcc gccctcgtg ctggccgcc tggtggcctg 240
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acggatcatg gagctggaag gcagggtccg cagggcggct gcagagagag gcgccgtgga 360
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ccagtccagc cacaacttcc agctggagag cgtcaacaag ctgtaccagg acgaaaaggc 480
ggttttggtg aataacatna ccacaggtga gaggctcatc cgagtgtgc aagaccagtt 540
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ccagaccaac ctggagagga agttctccta cgacctgagc cagtgcacat atcagatgaa 660
ggaagttgaa ggaacagtgt gaggaaccga aatttaagag gtcacaaaaa agggggaatg 720
aancttgtn ctttccagag accttgaatn gaaaaaccaa cgaaccagaa g 771

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<210> 3816

<211> 850

<212> DNA

<213> Homo sapiens

<400> 3816

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gcggacagct ggcagagaga gaagttggct agcatggaat caccagagga gcctggagca 180
tccatggatg agaactactt tgtgaactac actttcaaag atcggtcaca ttcaggccgt 240
gtggctcaag gcatcatgaa actgtgtcta gaggaggagc tctttgctga tgtcaccatt 300

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tcggtggaag gccgggagtt tcagctccat cggctgggtcc tctcagctca gagctgcttc 360
 ttccgatcca tgttcacttc caacctgaag gaggcccaca accgggtgat tgtgctgcag 420
 gatgtcagcg agtctgtttt ccagctcctg gttgattata tctaccatgg gactgtgaaa 480
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 gtgatgtggc tggcagatcg gcacagtgat cctgagctct atacggctgc caagcactgt 660
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 acctggatca ctttataaan angaaagaaa ngcttttgca gaatcctcag gacagcttga 840
 aggaaattgg 850

<210> 3817

<211> 823

<212> DNA

<213> Homo sapiens

<400> 3817

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 gtgggtaccc tctcctgacg cctccgccgc ccgggtcatg tggaccctcg tgggtcgggg 180
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 ttatgaagta tccaggtcac tttctgcttg ccagggtgtt ttacttgtgg ttgatgcaaa 660
 tgagggaatt caagcccaaa ctgtagcaaa cttctttctt gccttcgaag cacagctatc 720

ggtaattcca gttntaaata agatagatct gaagaatgct gacacctgaaa nggttgaaaa 780
ccaaattgag aaagtgggtg atatttccaa gtgatgaaat gna 823

<210> 3818

<211> 879

<212> DNA

<213> Homo sapiens

<400> 3818

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tcccttagct ggatacatct actgaaacca ttggtgcac ttcaactgcc acgcagcgat 120
ttatacaact gcttttatgc cataatgaat aagtacattc ccagggattg ttcccagaaa 180
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gcagatccat tttttattta tttcttaatg ttaattatcc ttgttaatgc aaaagaagtt 420
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cctgcagaac aatataatgc tgggcattta tcaactgctt tcccttanat tcagacctga 780
gcttcagaat ccattctgagt tgcacagtca gtaaaatcct gctggaaccc agaagcagtc 840
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<210> 3819

<211> 735

<212> DNA

<213> Homo sapiens

<400> 3819

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aaaaaataat gcttttcatt tgaactcctg tgcatTTTTt ttttaactta tatgtgttcc 180
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tgccatattc atcacgttat tataaacttc tgaaagaaag agaagatctt cctatatgga 660
aagaaaaata ctcttttatg ganaacctgc ttcaaaaac aaatcgngat tggttcangg 720
agatgctaaa tgtgg 735

```

<210> 3820

<211> 816

<212> DNA

<213> Homo sapiens

<400> 3820

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tgccgccttg ctccggccca ggctggctcc tcagcctttc cgccttgctg agtgtggcgg 120
cacgaggggc cttcgccacc acgcactggg tcgtcacgga ggacgggaaa atccagcagc 180
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actgcatcaa agccaagggtg cccttagggg acctggatct atatgatggc acatacataa 420

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ctttggagag caaagacatc agtcctgaag attatataga cacagaatct cctgtccctc 480
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 acctcattca tgaaggccta cagaagaaca cttcctcgtg ggtactgnat aacatggctt 720
 cattttactg gagaattaag aatgagccat atcangtagt agaatgtgcc atgccagcac 780
 ttcacttctc tttcaggcnc aattaaaaga canttg 816

<210> 3821

<211> 887

<212> DNA

<213> Homo sapiens

<400> 3821

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 atgaggactt tccatttaat ctgtgattca gccacatgat gtttttgcca aatgatgtga 120
 tactttccaa agcaccttga gtgtgaaatg tcaacagaaa taccagcaag cttttatgtt 180
 gcagagtatt atggtacctc tgaattagcc tgtatagttc tcttcctgct ttaagcatta 240
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 aagaatctgg gaattgaaaa tatcatttat tttttaatgc caggaatacc canatgtggg 840
 ttcacttcag cagtancat aggggtcact tatatacat ctggtcn 887

<210> 3822

<211> 863

<212> DNA

<213> Homo sapiens

<400> 3822

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gtcagggatg gctcttctc agggcttact gacattcagg gatgtggcca tagaattctc  180
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gtcttcatta ctccacaaaa accgggaagt acacacaaga gaaaaatctt tncaacgtaa  780
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<210> 3823

<211> 835

<212> DNA

<213> Homo sapiens

<400> 3823

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 aatattgcca ggtccactga tctcaaatac cccagcaacc attttccaag ggacttctgg 660
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<210> 3824

<211> 562

<212> DNA

<213> Homo sapiens

<400> 3824

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 gtacaagtaa cagccaatca gatttgtttt ccgaagagac caccagtgc aacaacaata 300
 cctcgataac cagccaact cttagtccca gccagcagcc gcttccgaca gaactgaatg 360
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 tcacaccaac aaaaagatcc tgtggtacag attcacagtc tgagaatgag gcttnaccag 480

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<210> 3825

<211> 831

<212> DNA

<213> Homo sapiens

<400> 3825

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gggcgtgaat aggatcgcag tgccaaagcc gccctccatt gaggaattca gcatagtga 180
gcccattagc cggggcgcct tcgggaaagt gtatctgggg cagaaaggcg gcaaattgta 240
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<210> 3826

<211> 539

<212> DNA

<213> Homo sapiens

<400> 3826

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 attacaaaga gacattttta caccaaatga tgaacgcctg ctgagcattg tgaatgtctg 180
 canagcagga aaaaagaaaa agaactgttt tttatgtgcc acagtgacaa ctgaacgccc 240
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 tcctgaattt gatttacact ttgaaaaaat atataaatgg gttgccagca gactgtctga 420
 aaagaatgca tttatctcat gcatttgga attgaatcan cgatatctcc ggaagaaaaat 480
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<210> 3827

<211> 860

<212> DNA

<213> Homo sapiens

<400> 3827

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<210> 3828

<211> 850

<212> DNA

<213> Homo sapiens

<400> 3828

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ggctggccaa tgatttgctt ggaaaagact aaactctaca tggccaaata tgcagattac 180
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<210> 3829

<211> 202

<212> DNA

<213> Homo sapiens

<400> 3829

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catgtagacc ccttgaagag gggaggggcc tagggagccg caccttgtca tgtaccatca 180
ataaagtacc ctgtgctcaa cc 202
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<210> 3830

<211> 880

<212> DNA

<213> Homo sapiens

<400> 3830

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agccatgata gttcaacata cagagatttc cagcaagctc tctatgagtt gtcatatcat 180
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<210> 3831

<211> 824

<212> DNA

<213> Homo sapiens

<400> 3831

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ccttctacca ctgagtggaa aacagattgg aaaggatcng gcactgactt tgaccctgc 780
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<210> 3832

<211> 828

<212> DNA

<213> Homo sapiens

<400> 3832

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 tttgctggca gaaggacatc caaacctgca atggcagggc actacttact gaatatttct 720
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<210> 3833

<211> 797

<212> DNA

<213> Homo sapiens

<400> 3833

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<210> 3834

<211> 602

<212> DNA

<213> Homo sapiens

<400> 3834

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<210> 3835

<211> 869

<212> DNA

<213> Homo sapiens

<400> 3835

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<210> 3836

<211> 806

<212> DNA

<213> Homo sapiens

<400> 3836

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<210> 3837

<211> 870

<212> DNA

<213> Homo sapiens

<400> 3837

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870

<210> 3838

<211> 843

<212> DNA

<213> Homo sapiens

<400> 3838

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<210> 3839

<211> 794

<212> DNA

<213> Homo sapiens

<400> 3839

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<210> 3840

<211> 754

<212> DNA

<213> Homo sapiens

<400> 3840

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ctaccagcgc	agctgggttaa	aggtgactga	ttacatcgca	gagaagaatc	tacctgtgtt	360
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<210> 3841

<211> 794

<212> DNA

<213> Homo sapiens

<400> 3841

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 ataattcccc gccacctgca gctcgccatc cgcaacgacg aggagttaa caagctgctg 360
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 gaaggaaacg ttcaataagt gagtcatgag gtttggaat tcgttcccct gacagtcata 720
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<210> 3842

<211> 766

<212> DNA

<213> Homo sapiens

<400> 3842

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gcattccttc ggcccgtggg ctgatctggg gcgggaagta ttagcgcttc agttgcgctg  180
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tccagtctac tgtaaagtgt ttaactgttc ttcagagact anatgtttgg ctttctggtg  720
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<210> 3843

<211> 811

<212> DNA

<213> Homo sapiens

<400> 3843

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gaggagatgc tgcagctcag ccagcagctg gatgcctctg agcagcacao agccctgctt  180
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atcatccggg cctcttcaga gagcagctat cccacagcag agagtcaagc tgaggctgag 300
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<210> 3844

<211> 594

<212> DNA

<213> Homo sapiens

<400> 3844

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<210> 3845

<211> 528

<212> DNA

<213> Homo sapiens

<400> 3845

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tggaatctca ccactgaaaa aaagcacacc cttttaagac tactttatga ggcacttgtg  180
gattgtaaga agagtgatgc tgcttcaaaa gtcattgggtg aattgctcgg aagttacaca  240
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<210> 3846

<211> 672

<212> DNA

<213> Homo sapiens

<400> 3846

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ccaaccactg cccggaggag gtagtggagg cgagcccgtt gttaatgagc cccgaaggcc  180
caagagtgga aaaactgttt tggccaactt tctgacagaa tcttctgaca tcaactgaata  240
cagcccaacc caaggagtga ggatcctaga atttgagaac ccgcatgtta ccagcaacaa  300
caaaggcacg ggctgtgaat tcgagctatg ggactgtggt ggcgatgcta agtttgagtc  360
ctgctggccg gccctgatga aggatgctca tggagtgggt atcgctcttca atgctgacat  420
cccaagccac cggaaggaaa tggagatgtg gtattcctgc tttgtccaac agccgtcctt  480

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acaggacaca cagtgtatgc taattgcaca ccacaaacca agctctggag atgataaagg 540
aagcctgtct ttgtcgccac ccttgaacaa gctgaanctg gtgcactcaa acctggaaga 600
tgaccctgag gagatccgga tggaattcat aaagtattta aaanngcata atcaactcca 660
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<210> 3847

<211> 636

<212> DNA

<213> Homo sapiens

<400> 3847

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<210> 3848

<211> 838

<212> DNA

<213> Homo sapiens

<400> 3848

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 ttttaattta aacatgggaa aagatttttt canaattaca tactaagaat gtaaaattaa 780
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<210> 3849

<211> 716

<212> DNA

<213> Homo sapiens

<400> 3849

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 cacaccagcc actcaagccc tgcggaccgg acacgtgagg aggtagtgc gccgacactg 240
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 agaagacggg cactaaccag gctgtatctg gacaaggcca ccttaatatg gaatggaaat 420
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cagggtcaata tgtagattg ccaaccagtt catgagcaag caactcagtc ccaaactaca 540
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cagaacttcc tgctgactgc tcagtccact cccaacaata ctgtgtggaa gattgcaagt 660
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<210> 3850

<211> 588

<212> DNA

<213> Homo sapiens

<400> 3850

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<210> 3851

<211> 850

<212> DNA

<213> Homo sapiens

<400> 3851

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<210> 3852

<211> 627

<212> DNA

<213> Homo sapiens

<400> 3852

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<210> 3853

<211> 772

<212> DNA

<213> Homo sapiens

<400> 3853

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 tttatataag tatagtatat atttatttag cagaataaat gtttatgggt gaaaatggct 180
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<210> 3854

<211> 729

<212> DNA

<213> Homo sapiens

<400> 3854

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gtctcgccctc ccgcgcgccg gtagattggt tgtttcatta tggatggagg ggatgatggt	180
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agaacaagaa ggaanttgga aaagaaactg actgtgaagc ctatagaaac caagancaag	600
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<210> 3855

<211> 277

<212> DNA

<213> Homo sapiens

<400> 3855

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<210> 3856

<211> 712

<212> DNA

<213> Homo sapiens

<400> 3856

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gcacatgttg gactactttg ttttaattaa actgctagta tttctttgtc aaggatgttt  420
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gtagcattgg attgatggaa agtgtanggt ttatgaatta ttgcaagctg actaccatac  540
ctcacacagc gttggtgttg tgaagcggcc catgaaaagc caaattaaaa atcaaggatt  600
cagtcaaact aagcaggtac tcaagccaag tactcctttc nnaacccaaa tccaangttt  660
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<210> 3857

<211> 721

<212> DNA

<213> Homo sapiens

<400> 3857

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ccatggtggc cagactgatc tcgaactcct gacctcaaat gatccacctg cctcagcctc  300
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tgaacatagg ttcatgggtg gccatagggtt aagtttttat acagttggta ttaatcaaca 420
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 atgtacctac ttcatagngt tgctatataa tgcgaagaac aatgcttaac acatcgtaag 660
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<210> 3858

<211> 746

<212> DNA

<213> Homo sapiens

<400> 3858

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 cctttaagat atgtcagggt tgatcttttt ttcagaacct aatgtgtaga tattcagaaa 180
 tgactctgga agacaaaaat ttggattgtc agaaggaggc tgctcatata attaatgcca 240
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 tttaaaaatc tattagcact aaactgactg catcgagtat cctagaattc acttaagtct 360
 tgccaagaaa ttaaggagct tcaggaactt ggtgttccaa agccctttac cccagggtgg 420
 agcaaattga aatcatgaaa gtttaaacca ctgcacagct tacagatctg cagggtagct 480
 ctgcagttgc cttgcaagga tatagagaag ttaatatctc aaatatttag taacatttat 540
 gctaattgagc cttccataat aaccataaat ggctttcaca tgttgtttgt tfaatgtgaa 600
 ctggcagagt atctattgac aagaaaacat tgtggagtcc tgagacaatt gaaaataagc 660
 cgaaattcac tttcctgaaa tatacattcc ttcacataag aactaaacan tgtattcccc 720
 aaagaaacat aattanttcc cngatc 746

<210> 3859

<211> 767

<212> DNA

<213> Homo sapiens

<400> 3859

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ggctctatct aatgttcctc ctctccggaa ctactttctg gaagaagaca attataagaa 180
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gaagactatt gtgactgatg ttttccaggg gtccatgagg atcttcacta aaaagcttcc 480
ccatcctgat ctgccagcag aagaaaaaga gcagttgctc cataatgacg agtaccagga 540
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caaggacgag aaggagcagc tcatcattcc ccaagtgcc ctcttcaaca tcctggctaa 660
gttcaatggc atcactgana aggaatataa gacttacaag gagaactttc tgaagcgctt 720
ccagcttanc aaagttgcct ccatatccaa ncctttgtat caagaga 767
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<210> 3860

<211> 782

<212> DNA

<213> Homo sapiens

<400> 3860

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atctcacaag cgtacggtct gatgaatgaa ctgttatctg agtcagtaca gctaccaact 120
ctaccacaga aaccattgcc taacaaaccc agccctactc agtcttccag ttgtcaacac 180
tgcccttctc caagaggaga gaatcaacat ggtcacagtt ttctaataaa tcgacctgga 240
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 gctccgtgtc atagtctgca gcatacaaaa aaacatggaa gtgctgggct tgcacctcaa 480
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 gagagcactg gcagcatcct cagcaagctg gactggaatg ccatcgaagg acatggtggg 720
 ccagcgtgga ngaccanggg cctgtctgtc cacnggggcc ctgggacctg taagaacctg 780
 gg 782

<210> 3861

<211> 810

<212> DNA

<213> Homo sapiens

<400> 3861

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 caagtgggtt caggctggaa gagtctccat ttgttccta tgactttatg aacagcagta 180
 cttcaccagc cagtctcca ggttcaatag gagatggctg gccacgtgcc aaatcgcta 240
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 tttcaattaa tactgtgagg gaagttgacc acctcaggga caggaacagt gggtcatacct 420
 catccttgaa caccagctg ctttcaacta gtgcctggct atccattcgt gcctccaact 480
 acaacgttcc cctcagcagt acagcacaaa gcacttcagc cagaaatagt gattccaaat 540
 tgacatgggt tcctgggttc agttacaaac acctctctgg ctcatgagct gtggaaggct 600
 cctttgccac ctaaaaacat cactgctccg tcccgccac ctccgggact gactgggtca 660
 gaagccancc ttgtctacgt gggataattc tccccttcgt anaggtggag ggatggggga 720

aattctgacg ccagatatac cccaagttcc agctggggtg agaagcagct caaggagaat 780
aacaaattgg gcttggttcc naaaaaannag 810

<210> 3862

<211> 706

<212> DNA

<213> Homo sapiens

<400> 3862

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caatatttaa ggatagaaat ctctgaaagc agagttaata ttagttgcc agaattgact 120
gaacggttta atcccatga tattcgcttg atattaagt atgatgtctt gatggaaaaa 180
tacgaagaat ttatgcttag acggtggctt gttgcagatc ctgattgtag gtggtgtcca 240
gctccggact gtggatatgc tgtgatagca ttggatgtg ccagctgtcc aaaattaact 300
tgtgggcgag agggctgtgg aacagagttt tgctaccact gtaaacagat ttggcacccc 360
aaccagacct gtgatgctgc tcgacaagag agagcccaga gcttacgttt gagaactata 420
cgctcttcat ccattagtta tagtcaagag tctggagcag cagctgatga tataaagcca 480
tgtccacgat gtgctgctta tataataaag atgaatgatg ggagctgcaa tcacatgaca 540
tgtgctgttt gtggttgtga gttttgttgg ntgtgtatga aagaaatctc aaatttgcatt 600
taactaantc catcangatg tacttttggg ggaagaaaac ctggagccga aagaagaaat 660
attgtggcaa ctggggaaca ctgggttgn gctcctgtcg gaatcc 706

<210> 3863

<211> 719

<212> DNA

<213> Homo sapiens

<400> 3863

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aggtgcttgc cttagagcaa gggaaacagc tctcattcaa aggaactaga agcctctccc 120
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 gcccagaaaa acagaaggaa gatgctcctg ctgctgtcct atgacctctt tgtcaattcc 240
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 cctgcttctg cctcccaaag tgctggaata caggcatgag tcaactgtgcc ccggcctgaa 660
 ctctgaattc ctgaatcgct aaagggctag gaataacttt ncttttcttt nctttcttt 719

<210> 3864

<211> 805

<212> DNA

<213> Homo sapiens

<400> 3864

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 ccaaaacaat aagtaacctt atttcgcaag acctaagaaa attggcacta ggttctttta 180
 tacattttta ctgtactgga ctacagcgta agtttcagaa attttacttc tattttttga 240
 aggtacatag tgtaactgct taagatcaat ttggatttca ttttcatcgt aaaaatgtct 300
 tgataaattc catacactgt agaataagcc tttcactaag gctggcatca acataaatgc 360
 agttattgca tatctggcaa aaagagggtca ttaacagaaa aaaatgacta gccattcaat 420
 gagacaaata aaaatacaaa aagttataat ctcatgtgtt aacacattat ttactatgaa 480
 cagaaatttc ttattagccc tcaacactgt catctggtta tggctccaga cagtactttc 540
 acgtaatatg ggcatattaa ctaatttttc caatcacttg ttcaaaaactt ggtcttaaga 600
 aagcaaatca tgcttgagg agaaaaaaga agctaaaang taaatangga atgaattaaa 660

aactagacta tggatgctg aatgagaaat atagtaagta tatttaatca taacctgata 720
 attacnttaa tggggccacg aaaataatgg atttactaca tttccttgaa gaaaatattt 780
 caatncctaa ggaancctaa ccttt 805

<210> 3865

<211> 781

<212> DNA

<213> Homo sapiens

<400> 3865

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 gtagcactaa gtaatctcac aggacaggca aggcctttct gaagaggtct tagagtgcag 180
 ggaattgcat gacaggtgct gttagccacc ttggaagaac tgcaggcctt gcgtgggtgcc 240
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 gactgctgtg ggtagacagt acaattcttc ttcagtttct gacttaggag tgtttccgaa 420
 aagTTaagtG aaaacaaaag tttgaagtgt ttccctttta gttacataac agacactcat 480
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 agatgtctac tgagaacaca gtattanggg atgtgggtgg gaanaaagat gcaatgggca 720
 aagcctcaac ctgggcgaac tggggcaagc tcgctctctc aaggcaacaa gtnaaggaaa 780
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<210> 3866

<211> 674

<212> DNA

<213> Homo sapiens

<400> 3866

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tgggcctgga gcanctgcgg cggctcgggg tgctctactg gaagctggat gctgacaaat 180
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tcataaccat atgcaaagat aaactaccaa attatgaaga aaagattaag atgttctacg 300
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cgctccccgc ggggatctat caccgcttca cggtggacga gaagaactac acgaaggcca 480
tgcggctgtt tgtgggagaa ccggtgtgga cagcgtacaa ccggnccgct gaccattttg 540
aagcccgcgg gcagtacgtg aaatttctgg cacagaccgc ctancantgc tgcctgggaa 600
ctaacacgtg cctcgtaaag gtccccaatg taatgactga gcagaaaatc aatcactttc 660
nctttgcitt taaa 674

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<210> 3867

<211> 670

<212> DNA

<213> Homo sapiens

<400> 3867

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agtgcgcctg cgcggagctc gtggccgcgc ctgctccgc cgggggctcc ttgctcggcc 60
gggccgcggc catgggagag gccgaggtgg gcggcggggg cgccgcaggc gacaagggcc 120
cgggggaggc ggccaccagc ccggcggagg agacagtgggt gtggagcccc gaggtggagg 180
tgtgcctctt ccacgccatg ctgggccaca agcccgtcgg tgtgaaccga cacttccaca 240
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cattcccgaa tccagagagg aacttcgtcc ttccagaaga gatcattcag gaggtccgag 420
aagggaaagt gatgatagaa naggagatga aagaggagat gaaggaagac gtggaccccc 480

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acaatggggc tgacgatgtt ttttcatctt cagggaagtt tggggaaagc atcagaaaat 540
 tccagcaaag acaaagagaa gaactcctca gacttggggt gcaaagaagg ccanacaaac 600
 ggaagcgcaa ccgggggtcac cnacaaagtc ctgaccgcaa acagcaaccc ttcaattcca 660
 ntgctgccaa 670

<210> 3868

<211> 711

<212> DNA

<213> Homo sapiens

<400> 3868

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 gaacttacta aggggcccag agcactgttg gaagtctggt tagagtcccc agagagttac 120
 tctaagttaa aatgagccac tgaccttggc tcaccttaga ggaatttcct cgagaacaac 180
 agagataaga aaagaaccag cctggccaat ccttcaacag ctctagagcc ccttttctct 240
 gctggcaggg gctttgttta ccagctcact gtttaggcta aatgttaggg accagatcac 300
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 tcagaccagg taagcctcat ttgcacaaca gtcaaattgt ttgttccttt aaaaaggaca 480
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 gcggatcacc tgaggtcagg agtttgagac cagcctcacc aacatggnaa aaccccatct 600
 ctactaaaaa aatacaanat taaccagggg tgatggcaca ttctgtaat ccagctact 660
 cggaagccg aggcaagaga atcgcttgaa cccggggaag gaaaaggntn a 711

<210> 3869

<211> 711

<212> DNA

<213> Homo sapiens

<400> 3869

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gaaaagtccc gggatgcggc ccgcagccgg cgagccagg agaccgaggt gctgtaccag 120
ctggctcaca cgctgccctt cgcccgcggc gtcagcgccc acctggacaa ggcctctatc 180
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gaggcccca cgagcggtg cttctccttg cgcatgaaga gtacgctcac caagccgcgg 540
gcgcaccctc aacctcaagg cggccacctg gaaagtgtg aactgctctg gacatatgag 600
ggcctacaag ccacctgtgc aaacttctcc anctgggaac cctgactcaa angccccgc 660
tgcaattgcc tgggtgctcat cttgcgaaag ccatcccca acccaangca a 711

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<210> 3870

<211> 624

<212> DNA

<213> Homo sapiens

<400> 3870

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gggggcgggc cgagcccga ggccagatgt gcggacacag cccacgcgc ggggccatgc 180
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acgttcctgg caatggcttc agcctcatcg gggccacac ggacagcccc tgcctccggg 480
tgaaacgtcg gtctcgccgc agccaagggt ggcttcagc aagtcngtgt ggagacctat 540

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ggtggtggga tctggagcac ctggtttgac cgtgacctga ctctggctgg acgcgtcatt 600
gtcaagtgcc ctacctcang tcng 624

<210> 3871

<211> 699

<212> DNA

<213> Homo sapiens

<400> 3871

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ctgacagctc tcagttacta agcttctgcg atatgctagg cactgtgctg gatgataaga 180
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ctctgccaca ggcaatactg agcaccatag gcttgagtat gccatttaac tgtttggttt 660
tggttcnant tggcacttta tacaatgttt ganaatatc 699

<210> 3872

<211> 653

<212> DNA

<213> Homo sapiens

<400> 3872

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tttccacgga ccctcctgcc tgggccgcag ccgccgccgc gatgcccagt aagttcagct 120
 gccggcagct ccgggaggcg ggccagtgtt tcgagagttt cctggtcgtt cggggactgg 180
 acatggagac agatcgcgag cggctgcgga ccatttataa ccgcgacttc aagatcagct 240
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 gcaaagaggt gctgaccctg angcttcgga atggcggaac ccaatctgtt accctcactc 600
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<210> 3873

<211> 632

<212> DNA

<213> Homo sapiens

<400> 3873

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 ggagctgtgg catggcgta catatgcatt taaggacctg tccctgtcct gcacaacaca 180
 gttcctgcag tacttcctgg agaagaggga gaagcacgtc actgtggttg taggaacatc 240
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 caagactgtg ttgcccgatg tggcttttgt caagatangc ctgcccattc gtctggtcgt 480
 ggcagtgaac cgcaatgaca tcatccacag gactgtccan caggagact tctctctctc 540
 tgaggctgtt aaatcaacct tggnatcagc tatgggcatt caagtgccct acaacatgga 600
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<210> 3874

<211> 733

<212> DNA

<213> Homo sapiens

<400> 3874

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ccttcaggct ggacggcgcg ggtcagccct ggttcgccgg cttctgggtc tttgaacagc   180
cgcgatgtcg atcttcaccc ccaccaacca gatccgccta accaatgtgg ccgtggtacg   240
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aagacacaca caactggagc agatgttttag ggacattgca actattgtgg cagacaaatg   540
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catccactat tcggtgaaaa ccaacaaaga gtacaaaaca gcaagctttg gaagtgataa   660
aagcagttta aaaggagaaa aatgaanatt anaaacgttg ctcaaaatga aggcttccgg   720
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<210> 3875

<211> 761

<212> DNA

<213> Homo sapiens

<400> 3875

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atcgccccca cccctccttt acttaagggc gatggcagag acgtcctcct ccccttctc   180

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ctcctctttg gtgcctccag ccaggaggcg ggagcgatcc acagcagctg acccagctca 240
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 cagcagcgac gacgcgggcg gcggccccag cgactcgcaa ctgcctccct gaccacagcg 360
 gccaccgccc aacacccccg agaagccatc gccaccaccg gcaggagaaac ctaggggtcca 420
 taaagccatc ttcgcgatcg actaaagcta cgtcaacaac tatggcgggc gacgggaggc 480
 gggcagaggc ggtgcgggaa ggatgggggtg tgtacgtcac cccagggcc cccatccgag 540
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 ctcctccgtc gcgccagggc cggcgggaaag tgaggttctc ggacgaagcc gccagaagtg 660
 tacggggact tcgagcccct ggtggncaaa gaaagggtccc cgggtggggaa aacgaaccgc 720
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<210> 3876

<211> 747

<212> DNA

<213> Homo sapiens

<400> 3876

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 acaactatgc cctgaatctc aacattgcc aagccctgca tatgatattt agatccggtt 180
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 aatatacttc cattgccctg gtgtctgtgg ggatatttat ttgcactttt atgtcagcaa 300
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 gggttctacct cctcatgaac atcatcactc aagactccta ctttaactggg gagagaaatg 660
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747

<210> 3877

<211> 726

<212> DNA

<213> Homo sapiens

<400> 3877

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 gatgtccatt ggaagcattt atttggaact ttttgggggt ggaaggaaag ttaattaatt 600
 ttatcaagtc tacccecaaa aggactctgc ctaattttgt tgaanaagac aaaggaagtg 660
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 nttaaa 726

<210> 3878

<211> 712

<212> DNA

<213> Homo sapiens

<400> 3878

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 gcggcgggca tggcggtggn caaaagcaac cctacctcaa agcacaaaag ttggtgctgt 660
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<210> 3879

<211> 680

<212> DNA

<213> Homo sapiens

<400> 3879

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 gctaccagcc tggggggagg tgggctgggc tggtcttggg agttctggaa gctcccaagc 480
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 cctctgagtc ccattcgctt cacctatctt ctatggccgc cccatagcca tactgcccac 600
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cagngccgct cagtgtgcgg

680

<210> 3880

<211> 630

<212> DNA

<213> Homo sapiens

<400> 3880

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tcattaaaga tgaaaatgtt actctgtatg tgtgggcaaa cctcaagaag aatccaaggc  180
acagaagtgt tagattctct gaaacacaaa ttggatttga gattccaagg atattagcaa  240
caagtgacat tgctgtacga ctctgcata cccactatga tcatgtttct gcactgcacc  300
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ttaagaatgt agaaaaagca atcagcaagg aggtcgaaga agagtccaaa caacaagaaa  420
gagggtctca cttaattcag gaggaagaaa taaaagttag ggaggaacaa ggtgatattg  480
aagtgaaaat gagttctgct gaggaagaat ctgaagccat aaaatgtgaa cgagagatga  540
aagtattaag tgaaactgtt tcancaacac aattgttgcc gggaaaagaa atcctccgga  600
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<210> 3881

<211> 737

<212> DNA

<213> Homo sapiens

<400> 3881

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gggagttggt atttctgtag taaagacctg actgcagcat ttacacatga taaataggaa  120
atggcaaacc tggggaagca agtttgaact caatctggaa gtaatagcct aagcagcttg  180

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gatacgtaat cacccttga gatatatagt caacagtaca cactgacatg ttcataagtaa 480
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caaagcctat gttcttaagc atgtaccaaa atcacattta nttcattaat ccatttactc 600
attaccaag aatgtaacaa aatttagtga atatctgcta tgtgtcaggc acttttcttg 660
gtcctgata tacaaatgat attcaaataa aactcaaaan cctggtaagg ggaaggtang 720
gagacaaant atgtacc 737

<210> 3882

<211> 789

<212> DNA

<213> Homo sapiens

<400> 3882

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cgcaagatgt ggaaccccag ggagccccgc gactgggccc agcagtaccg cgagcgcttc 240
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gagtccggca gagaaggcgg ctttggaggc gttctcagcc cacgtggact tctgcaccct 360
gttccactac caccaaatec tggcccggct gcaggcctta tatgaccca tcaaccctga 420
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caccctggcc tacgcgctgg tggccacca ccctcaggat gaggtccang tgacagtaaa 600
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cctctacctg actgacactc ttctacaag aagatccttg cncgcttcct gtgtgggctt 720

caagtgggtcc ccttgntac aggagcccc cacctttcct tgcccaagaa ccccttantt 780
ggtcccca 789

<210> 3883

<211> 714

<212> DNA

<213> Homo sapiens

<400> 3883

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tcaagttcca agtgcctcag cggtaggggc cggggaagtg tctgtagcgt ccctccctct 480
caaccacaat aacaggcgga gggtcggcgt ancatcttca ccagaagtag atttcatctc 540
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atgagattgc agcaattcag tcacatcttc aggtctaca tccgattgta gttctcttgc 660
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<210> 3884

<211> 790

<212> DNA

<213> Homo sapiens

<400> 3884

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 ttccagtcag catatcaatt agatgtatca gaaataantg gttaaatgac ttcagtcatt 660
 taaatgagga aattcccttt tagaatccta actacctaac tgtgtaatca tgnataaca 720
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<210> 3885

<211> 683

<212> DNA

<213> Homo sapiens

<400> 3885

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gataggagtt gtcacgcgg cttacatgca ctacagcaac atttctgcca gtgcggacca 600
 ngctctggac cggtttgcaa tgaagcggtt ctaatgaggg ataagattgt gccccaaaat 660
 ttttgggggg gncccccna aaa 683

<210> 3886

<211> 683

<212> DNA

<213> Homo sapiens

<400> 3886

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 ttttaaggact acaatctgag cattaatggg tatcaaactc ttgggctttg ggaacaaaaa 660
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<210> 3887

<211> 677

<212> DNA

<213> Homo sapiens

<400> 3887

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aaataactta ctcatgtaac caaacaccac ctgtttccca aaaacctatg gaaattaaaa 180
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cctggctgan aaaggcagcg ctgccttcag ggaactgggc ccattgcctg gggggggaaa 660
aagggttttn ccaangg 677

<210> 3888

<211> 666

<212> DNA

<213> Homo sapiens

<400> 3888

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aggcctgggt gcctcgggna ggactcccca acctgggctc cccaaagtcc caagnaaccn 660
 cccccc 666

<210> 3889

<211> 656

<212> DNA

<213> Homo sapiens

<400> 3889

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<210> 3890

<211> 658

<212> DNA

<213> Homo sapiens

<400> 3890

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gaatacacaa gcgatgatat gaacgtagca cctgaagaca ggggtgtgggt gagaggatgg 180
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<210> 3891

<211> 659

<212> DNA

<213> Homo sapiens

<400> 3891

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<210> 3892

<211> 571

<212> DNA

<213> Homo sapiens

<400> 3892

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<210> 3893

<211> 680

<212> DNA

<213> Homo sapiens

<400> 3893

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<210> 3894

<211> 786

<212> DNA

<213> Homo sapiens

<400> 3894

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<210> 3895

<211> 709

<212> DNA

<213> Homo sapiens

<400> 3895

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<210> 3896

<211> 539

<212> DNA

<213> Homo sapiens

<400> 3896

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<210> 3897

<211> 717

<212> DNA

<213> Homo sapiens

<400> 3897

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<210> 3898

<211> 681

<212> DNA

<213> Homo sapiens

<400> 3898

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<210> 3899

<211> 726

<212> DNA

<213> Homo sapiens

<400> 3899

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<210> 3900

<211> 675

<212> DNA

<213> Homo sapiens

<400> 3900

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ccacaaaaca taaaaggagc aagtcggact gaatacctgt ttccatagtg cccacagggt 180
attcctcaca ttttctccat agaagatgct ttttcccaag gctagaacga cctccaccat 240
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tgtccntaaa angta 675

<210> 3901

<211> 650

<212> DNA

<213> Homo sapiens

<400> 3901

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<210> 3902

<211> 643

<212> DNA

<213> Homo sapiens

<400> 3902

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<210> 3903

<211> 779

<212> DNA

<213> Homo sapiens

<400> 3903

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agataagagg atttgtaaaa atttttaagg ctgagagaat attcgaattc aagcaagatg  180
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tcagaacact cactaagtgg ggaattctag tcatacaagg gctcttaggg gggggtgttt  660
gtgctatttt catagattag cctaattcta ccaaacagta tttctagtaa ttcatacatc  720
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<210> 3904

<211> 694

<212> DNA

<213> Homo sapiens

<400> 3904

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<210> 3905

<211> 472

<212> DNA

<213> Homo sapiens

<400> 3905

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<210> 3906

<211> 575

<212> DNA

<213> Homo sapiens

<400> 3906

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<210> 3907

<211> 788

<212> DNA

<213> Homo sapiens

<400> 3907

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<210> 3908

<211> 475

<212> DNA

<213> Homo sapiens

<400> 3908

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<210> 3909

<211> 722

<212> DNA

<213> Homo sapiens

<400> 3909

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<210> 3910

<211> 602

<212> DNA

<213> Homo sapiens

<400> 3910

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<210> 3911

<211> 742

<212> DNA

<213> Homo sapiens

<400> 3911

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<210> 3912

<211> 742

<212> DNA

<213> Homo sapiens

<400> 3912

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caaacagagg tttccactct tgaacaagat catccaggtt cttaaagtcc tccccacttc   60
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ccgcctgacc ctggagcagc ttagcgacct gttgacaatc gctgtaaacg gaccgccaat 180
 caccaacttt gatgccaagc gagccctgga cagctggttt gaggagaagt ctgggaacag 240
 ttacgcgctg tctgcagaag tcctcagtag gatgtctgcg ctggagcaga agccagcact 300
 acagaccatg gaccacggga cggagtttta ccccgacatt tagggagctg gcgctgcaga 360
 gttcactaag ctgttgaata tttttttaat ctatactcat aagctttgat atattatata 420
 aatatatatt atattanatt atattatatt atatatatat atatatataa actcacactg 480
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 aaaaatgttg gaaactgact cttgtctaca aaatttggca gctgcaacat acatggcanc 600
 tcattttcac tcacagaagc acgtgctggg gcctcctgtg ttcccaactt actgtccacc 660
 aacagcataa gctaaaatga caggtctctg tcatcacctt taggtagcnc attttggtna 720
 angttttcaa tttgcggggt gg 742

<210> 3913

<211> 667

<212> DNA

<213> Homo sapiens

<400> 3913

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 aaggaagaaa ggcaaaaaca gttgcagcaa cagaatgaaa aagagatgat ggaacagatt 180
 cgccagcaaa cagatatatt agagaaggag cgcaaaacct tcaagacaat tgaaaagcca 240
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 ctatcattaa aagatgcagc tcttgcccaa aaagacagtt cccctgctca cttaccccca 420
 aaggaccgac ctgtcaccgt gttctttgaa agaaaaggaa gtccatgcca atctagtact 480
 gtcaaggaat tatccaagac agacagaatg ggcaccagc tgaatgtagc ctgtaaactc 540
 tcaaataatc gcatttcaaa aagagaacac tttangccaa ctcagtctta cagccacaat 600
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atgagta

667

<210> 3914

<211> 783

<212> DNA

<213> Homo sapiens

<400> 3914

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aaaagttatg catactcata aaaattcaaa caatgctgaa ttgaaaaagg aaaagttagt 60
ggctctttat ccactttatg tcccactgcc cagagatcat caccatgagc agtttggtgt 120
atgacattcc agatacgcac acatatcttc atacatacac acatacaaat atgtatacat 180
ataacaaaag actgtaaaat ataataatat gatcatggac aacttgccat ttggacttac 240
tccattcttt ttttttaatt ttattttctt ggactcaggt cacaaattta ttcttttaaa 300
acactgcata gtactctaca gaatgggagc actttgattt atttaaccaa ttccttattg 360
gatttgtgtc aatgcttcaa atcaaaactt tcaaaataaa atttacaggg tgtcttggtt 420
gtgtttctat gtcaatacat agattgacgt tatcttttat ctttttttaa acagatgcag 480
tgtacttcat aatatgaatg gaacacaatt tctttaaaca tgtgtctatc aaaaatcttc 540
caattttttt ttactcttat cagtaatgaa catcggttgc acataatctg tgtacaaaag 600
tacgactgtt tctcaagggt aaattcctan aaggaggata actgggatna aagggtattt 660
acatgtaaaa ttgggaaaca tgttgccaaa tgccccaaga gggtaaaccg ggttaatcct 720
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gcc 783

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<210> 3915

<211> 729

<212> DNA

<213> Homo sapiens

<400> 3915

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 ctttaagagg agcaaaattg agttttccca ttttggccaa gattttgaag acagttcaat 180
 gtattctaca tttagacataa gatgagaact ttctaaagta ttctctccaa gagcgtaaac 240
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 ttcaaaacac aaacgctttg atttgggttt agaagatgtg ttaattccac atgtagatgc 480
 cggtaaaggg gctaaaaacc ccggagtctt cctgatccat ggacccgatg aacatagaca 540
 caggaagttc acaaatgggt gctaccatag tagatgcttt ggataccctt tatatcatgg 600
 gacttcatga tgaattccta natgggcaaa gatggattga agacaacctt gatttcaagt 660
 gtgaattcan aggtgtctgt gtttgaaagt caacattcna gtttaattgg agggctactt 720
 gcancaata 729

<210> 3916

<211> 676

<212> DNA

<213> Homo sapiens

<400> 3916

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 tgtagccaat gaaataacat gttctgggcc ccaccactgg actgggaggt gcagcgcac 180
 caagcagagg ctgcctcctg ccctccacgc ctgctgctct cgcaggcagg ggctctgctg 240
 cttacagcag tgcggccatc tcggcttctc tccacatcgt ctgtcacgcg ctggtcccca 300
 ccatacctct cgccaccccg tgcctctgtc cccgtgcggc ctgaggagct ccagctttcc 360
 ctgccagcgg tgctctggga gtggggacgt gatgcagggc gagcatgatg caacggggca 420
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 gacactggcc ccgtggggga agaaggtgct gtcacagccg ttactgtccc ccgtgggacc 540

cancctggag cccccatcc ttggctcct gcctgtggcc actcagctct caagtgggca 600
catgcacatc ccctgtcct tccctngca nctgccctgc ccaatggnet ttctggtccc 660
agctactgaa accggt 676

<210> 3917

<211> 762

<212> DNA

<213> Homo sapiens

<400> 3917

aaacaaggga agcaagccgt ccaaaatcca gggttcctag agccgtatct cagaatttta 60
tgcacacagg ttgcagttaa gtcttgctca aagttttctg ggagaactaa gaactttcat 120
tgttaatgga agtgtggcaa ttggagcagg tgacaaagaa caagcccttt cgagtcccc 180
cttcattcac tccacacatg ggttgccttt ggcgtctggg ccacttggtc tccaatggta 240
gcagaacaca gcaagaatcc atgtgttctg cctgggtggct gtgtgtggtt ggcctcctgg 300
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cgagggcaga tagagtggac agggcttga cattctggat gaagagccag tggcctcagg 420
gcagaaatga caccagggtta actcatcaaa atgtgcctcc caaggctcta gaaaatccct 480
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acggggccac aaggaaatgg aaacagtagt ggggttcaca tgtgcgaaca ttcacaagat 600
gccaaagtag gcactcggna caatccgctt antagctctc atccaagacc acgtgcaacc 660
aatgatgaag gctangatgg gggatgcggt caagggcact agccttgaaa aggggggaca 720
agggagaanc ttcaaaaaca agtggnggaa aggcataaac aa 762

<210> 3918

<211> 698

<212> DNA

<213> Homo sapiens

<400> 3918

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tggggcgacg aggctgacgg cggccagcag gaggatgatt ctggagaagg agaggatgat	120
gcggagggtt agcaagaatg cctgcataaa tttccaccc gggattatat catggaaccc	180
tccatcttca acactctgaa gaggtatfff caggcaggag ggtctccaga gaatgttate	240
cagctcttat ctgaaaacta caccgctgtg gccagactg tgaacctgct ggccgagtgg	300
ctcattcaga caggtgttga gccagtgcag gttcaggaaa ctgtggaaaa tcacttgaag	360
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gagaccccag cgtggctgga acagatgatt gcacatacca cgtggcggga cttttttat	480
aaactggctg aagcccatcc agactgtttg atgctgaact tcaccgttaa ggtangaaga	540
gttctagagt taaggagaaa agtgtttatg aatgtttatt ttgtgtgtt ggtctgtttc	600
ctttgacagt tcatatttgc ttttttcca taaaggtctt tattgnttta attcataaa	660
gccttacact gaagaaagaa aagtggnaaa aatttgn	698

<210> 3919

<211> 775

<212> DNA

<213> Homo sapiens

<400> 3919

atgacgcgag accccgcccc cgcagcgccc gcttccaaga tggcggcagc gatgcctgcc	60
cggctgttgg ggtggcggg acgacaggca gcaaaagacc agctggtccc agattcgtg	120
ctggagtgct ggatggagcc tttctctgcc ctctgtgaca tttccaattt tagataatgc	180
ctcacatctc tgtcccccg ggaccccctg gagccccat gatccctaag aagacagctt	240
gaacctagat ctacccccca ggatgttgcg gaggtgctg gagcggcctt gcacgtggc	300
cctgcttgtg ggctcccagc tggctgtcat gatgtacctg tcaactggggg gcttccgaag	360
tctcagtgcc ctatttggcc gagatcaggg accgacattt gactattctc accctcgtga	420
tgtctacagt aacctcagtc acctgcctgg ggccccaggg ggtcctccag ctctcaagg	480
tctgccctac tgtccagaac gatctcctct cttagtgggt cctgtgtcgg tgtcctttag	540

cccagtgcc a tcactggcag agattgtgga gcggaatccc cgggtagaac cagggggccg 600
gtaccgccct gctgctctac cacctgcacc ctttcttgca gcgccagcag cttgcttatg 660
gcatctatgt catccancaa gctggaaatg gaacatttaa caaggcaaaa ctgttgaacg 720
ttgggggtgcg aaaagnccctg cgtgattaaa aagtgggact gcctgttcnt gcaac 775

<210> 3920

<211> 910

<212> DNA

<213> Homo sapiens

<400> 3920

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ctgcagcagg tgtacgaagc catcgacagc agagatggag catcttgtgc agagttgggtg 120
tcttttaaac atcctcatgt tgcaaacc ca gacttcaaa tggcctctcc agaggagaag 180
tgtcaacaag tcttgaacc cccttatgat gaaatgtttg cagctcattt aaggtgcact 240
tatgcagtgg ggaatcatga ctcatagag gcatacaagt gccagaccgt gatagtccaa 300
tcattcttgc gagcattcca ggcccacaaa gaagaaaact gggctctgcc tgtcatgtat 360
gcagtagcgc ttgaccttcg agtgtttgcc aataatgcag atcaacagtt ggtaaagaaa 420
ggaaaaagca aagttgggga catgttggaa aaagcagcag agttactgat gagctgtttc 480
cgggtctgtg ccagcgacac ccgtgctggt atagaggact ctaagaagtg gggcatgctg 540
tttctgggtga accagctgtt taaaatctac ttcaagatca acaaactcca tttatgtaaa 600
cccctaatta gagcaattga cagctcaaac ctgaaagacg attacagcac tgcacagaga 660
gtaacataca antactacgt tggacgcaag ggctatgttt gacagcgatt ttaagcaagc 720
tgaggaggta cctgtcaatt tgcctttgag cantgtcacc gttctagtca gaagaacaaa 780
nnggatgatt ctgatcaatt gcttccagtt aaaaatgcta ttgggggtcaa atgccactgt 840
gggagcccc gaaaaagttt caccgggatg caattttgcg gaagntaacc anaacttttt 900
aaccnaaggg 910

<210> 3921

<211> 666

<212> DNA

<213> Homo sapiens

<400> 3921

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acaggccaaa aaggaaaagg agccggatta tgttttgctt tcagaaagag gaatgcctcg  120
acgtcgagaa tttgtgatgc aggtgaagggt aggcaatgaa gttgctacag gaacaggacc  180
taataaaaag atagccaaaa aaaatgctgc agaagcaatg ctgttacaac ttggttataa  240
agcatccact aatcttcagg atcaacttga gaagacaggg gaaaacaaag gatggagtgg  300
tccaaagcct gggtttcttg aaccaacaaa taatactcca aaaggaattc ttcatttgtc  360
tcctgatgtt tatcaagaga tggaagccag ccgccacaaa gtaatctctg gcactactct  420
aggctatttg tcacccaaag atatgaacca accttcaagc tctttcttca gtatatctcc  480
cacatcgaat agttcagcta caattgccag ggaactcctt atgaatggaa catcttctac  540
agctgaagcc ataggtttta aaggaagttc tcctactccc ccttggttctc cagtacaacc  600
ttcaaaacaa ctggaatatt tagcaaggat tcaaggcttt cangtatgaa ttaaaagcaa  660
nancaa                                           666
    
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<210> 3922

<211> 786

<212> DNA

<213> Homo sapiens

<400> 3922

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aagctggact taaagagttc aaattggagc tggaattgct ctaagcaatt ccagggcctt   60
gcaattttac aattaaggaa gacttaaata tatacatagt caggggtggca aggtaaaagg  120
aggtctgatt tcctctgcga tgttcttcag ctaagaccta aattctgaaa ccgttaaaac  180
ctgaagtgcc tttaaataata ttatttcac agagccccag gttcattgtg tcacttatca  240
aggtctgatt tagggctctc aaggactaat cttgttagtg tttaaaagca actaggtttt  300
    
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gtttttggca ttttagttcc atcttctaga ttctgttgtc ttgcagatag agatcaggga 360
 gcccagctac acattcattc ttctagtccc ttgtactcat tgtatttcct tctgccttag 420
 ggccttagtt tgtgctgttc cctgtaccag gaactctctt tgctgtttct cggtttcttg 480
 ctcaaagtgc acttcaagga aggctttcct gactgacttc ttatttttta agttgttaca 540
 acattgtgta cctttgtttt atagcactta catttatttc tatgaatatt tccttaatgc 600
 ctatattcct tcctaaatcg taaagctgca cnagagcang atcatttggtg tctgccttac 660
 taaccttttc atcctgagtg cctggcaaaa gtgcttggtg nctggattga tacttaataa 720
 atatttgcta agcaaagtga nggtaacctc aaatccaagg gcnaagtcaa gctccaagga 780
 attcca 786

<210> 3923

<211> 656

<212> DNA

<213> Homo sapiens

<400> 3923

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 gggaagtcac gtctcctcct gcagtttaca gataagcggc tccagcctgt ccacgacctc 120
 acaataggtg tggagtttgg agctcgtatg gtcaacattg atggaaaaca aatcaaactg 180
 caaatctggg atacggggag cagctggagc actgctgggtg tacgacatta caaggcgtga 240
 aaccttcaac cacctgacct catgggttaga ggatgcccgg cagcactcta gttccaacat 300
 ggttatcatg ctcatggga ataagagtga cctagagtcc cgcagggatg tgaagagaga 360
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 agcctgcaat gttgaagagg ccttcattaa cacagccaaa gaaatatata ggaagatcca 480
 gcagggttta tttgatgtcc acttcccact aagaattagg gtcaaagaca ttctatttga 540
 acacttgcaa ttacctagat ctaattggnc tttgntgat agattctctg cctcgnatt 600
 tcattgagtt ttttctctcc ttgcctttgg gtgtctgctt gccacttcct aaagaa 656

<210> 3924

<211> 821

<212> DNA

<213> Homo sapiens

<400> 3924

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gcttcctcgt tgccccgcc gcgggcgcga gatggattcc gggctgctggt tgttcggcgg 60
cgagttcgag gactcgggtgt tcgaggagag gccggagcgg cggtcaggac cggccgcgtc 120
ctactgcgcc aagctctgcg agccgcagtg gttttatgaa gaaacagaaa gcagtgatga 180
tggtgaagtg ctgactctca agaaattcaa aggagacctg gcctacagac gacaagagta 240
tcagaaagca ctgcaggagt attccagtat ctctgaaaaa ttgtcatcaa ccaattttgc 300
catgaaaagg gatgtccagg aaggtcaggc tcggtgtctg gctcacctgg gtaggcatat 360
ggaggcgctg gagattgctg caaacttggg aaataaagca accaacacag accatttaac 420
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agactgtctt ttgtgttttc ctgaaacctt gcctganagc tctttaattt ctgtggaagc 720
gaatagcaat aatagccana aaaatgagaa agctctgaca aatatccaaa aactgttttg 780
canaaaaaga gaagaaacaa gtggttgata anagaactca a 821

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<210> 3925

<211> 635

<212> DNA

<213> Homo sapiens

<400> 3925

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tattatagac cataatatgc ctgtcataag cagactgttt ttgttgactt tcttgacctt 60
ctggggtagg tagtgccacc tccttggaag aaagatcctt ttcgtgatgc cagggcaatg 120
attaacacat ggaaaattgg agcaaatgaa actgcaatta atactgctca aacagattgc 180

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agagtatgat gaagaacttg gatgtcattt tattgcagcc tctcctgggg acaccattat 240
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 tcaagatgtg tgatgggang cggggaacat acaaccccca gctgcttaaa ctcttcttta 540
 tccagaattc cccttctttt anctttggga ggcttcanat atcactcagt tgactgatta 600
 aatatcaagg gataggaatc tatccccaag ggngg 635

<210> 3926

<211> 756

<212> DNA

<213> Homo sapiens

<400> 3926

aaaactaatg actgagcaca aacctgttga agatgcagtt cttcttggta gcctaaatag 60
 gattatcttg gacctaagat agtgaccttg ttttttttc ttaatttttc cattgaaata 120
 catggcctta aggaaatatg caaaaaaaaa aaaaaatgaa cctggaaaaa aaaggtcctg 180
 gaccagggtg atgcctcata tattaagaaa tccccgaggc cgggtacagt ggcttacgcc 240
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 cgtctcaaaa aaaaaaaaaag aagaagaaaa agtatccccg gtactattca aatggaactt 540
 tatcactaat aancacaagg gaagaccatg ccccatgtta gcaatgcaaa ttattgctac 600
 agctgcctaa gataatttgg nccttagttg ataatatnca agagaatgtg gacttctaag 660
 tccctttgcc ttgcatcctc tgtttcaaat ganttaaagg ggttgtgtag ggaaagcaag 720
 ttantaaaac ttaggagaaa nccttcccaa gattta 756

<210> 3927

<211> 669

<212> DNA

<213> Homo sapiens

<400> 3927

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tggtgagggg agagagagac cctctcatat tgttttatac tcagaaaaga aaagagaagc   60
aaaactaaag gcaggtagcc tggcacctag gaacagaccc aaaaccaagg aaccagaccc  120
gaaaccaggc ctgggcctgc ctgacctaaag cctagtagtt aaaattctac ccctgacctt  180
gcaactgatg ttatctctag attatagaaa gacattgtaa aacttcccgg tctgttctat  240
ttcactctga ccaccgttgc atgcagcccc tgtcacgtac cccctgcttg ctcaatcgat  300
catgaccctc tcacgcggac ccccttaga gttgtgagcc cttaaaaggg acaggaattg  360
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ccactccctt cactatcttg gtgtctgagg ggttttgtct gcggcttgtc ctgctacatt  480
tcttggttcc ctgaccagga agcgagggtga ttaacggatg gttgaggcag ctccttanga  540
gacttttagc tgccctgtgg aacatccctg cgggggactc caaccagcca aagcaacgcg  600
gatcctgana gtgctcctgg gtangcactt gccctgatgg gacgccttgc caaagcantg  660
tgtggaagg                                     669
    
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<210> 3928

<211> 755

<212> DNA

<213> Homo sapiens

<400> 3928

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aaaaaaaaaa aaaaaaagggt ttgtctccgc tgtttcatct ctatggctgt cagaggtggg   60
cggctttgac cgagaggctg ctggagctcg tgtttggacg cgatgtttcg tctgaactca  120
ctttctgctt tggcagaact ggctgtgggt tctcgatggt accatggagg atcacagccc  180
atccagatcc ggCgaagact aatgatgggt gctttcctgg gagcatctgc agtaactgca  240
    
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agtactggtc ttttgtggaa gagggcccat gcagaatctc caccatgtgt agacaaccta 300
 aaaagtgaca tcggtgataa aggggaagaat aaagatgaag gggatgtttg taaccatgag 360
 aaaaagactg cagatcttgc ccctcaccca gaagagaaaa agaagaaacg ttctggattc 420
 agagacagaa aagtgatgga atatgagaat aggattcgag cctactccac gccagacaaa 480
 atcttccgat attttgccac cttgaaagtc atcagtgagc ctggtgaagc agaagtgttt 540
 atgacaccag aagattttgt gcgatccata acaccaatg aaaaacaacc agaacacttg 600
 ggtctggatc aatatataat aaaacgcttt gatggaaaga aaatttccca ggaacgagga 660
 aaatttgctg atgaaggcag tatattttac acccttggag aatgtgggct catatccttt 720
 tcagactaca ttttctcan aantggtcnt tccaa 755

<210> 3929

<211> 714

<212> DNA

<213> Homo sapiens

<400> 3929

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 agaaatttca aaatctgact tatctggaac aacagcttga agaccatcat aggatggagc 180
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 tggcagatta aaaccctcag acttgtaggt aaatgggaac ttanaagggt aggaaggtaa 660
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<210> 3930

<211> 632

<212> DNA

<213> Homo sapiens

<400> 3930

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aacgttcaact tcaactcacgc tgcccaacat gtttgggaac ctgcgctcca cgtaaatggc  360
cctcatgatt ggctcttacg cctcttctgc cattacgttc ccaggaatca agctgatcta  420
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cttctacacc catgtgacca ncatgggcca aa                                632
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<210> 3931

<211> 776

<212> DNA

<213> Homo sapiens

<400> 3931

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catgtctaca agctctgtac gcaaacgata tgaaggtgaa gagaagacat taacagggga  240
cgtgaaaacc agtcctccac gaactgcacc aaagaaacag ctgccttcta ttcccaaaaa  300
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 atggaggcgg naccataatc atatttggca agtattaatg tatgcaagga gagttttcta 720
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<210> 3932

<211> 733

<212> DNA

<213> Homo sapiens

<400> 3932

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 aggggccccct cgcctcccct ctgaggaccg aagatgagct tcctcctcag cagccgctct 180
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 ggtccgagat atgaatatca ctgggcagat ggtactaata ttaaaaagcc aatcaaagt 480
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 actattctaa agcgtctgtt cagggtttat gcccatattt atcaccaagc actttgattc 660
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<210> 3933

<211> 762

<212> DNA

<213> Homo sapiens

<400> 3933

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gcatgcatcc agctctggag gccacgggtgc aggcataagct gcctgctgct ctggcagagg 180
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cacagattta ttgaaaaact tttttgcttc tgcttcattt tttagcattt tagtttctgg 660
ttttcatttt tggngaattc ttgcctttta aactcgtggn ttttctctca ttttcttccc 720
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<210> 3934

<211> 749

<212> DNA

<213> Homo sapiens

<400> 3934

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agcagctgcc ttagcttttg caagagaagg tgccaaagtc atagccacag acattaatga 180
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gtccaaactt caggaactgg aaaagtaccc gggatttcaa actcgtgtcc ttgatgtcac 240
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 gcttgctcag aaatctggca atattatcaa catgtcttct gtggcttcca gcgtcaaagg 480
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 ttttttcaaa attggtatta agttccttaa ccacagatct tttgctctcg atgtgagcca 660
 gtggtaaaat taaattaataa tgtgggggta tttttgccct cccttttant ctttctaattg 720
 ggncatggna aatgaacatc aaactggga 749

<210> 3935

<211> 784

<212> DNA

<213> Homo sapiens

<400> 3935

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 ttcacctcag ttttgtgatc cgtaaaatgg acaaattcga agctacttca cagtgtgtt 360
 gagaggatta aatgaaacaa tgcttgtaaa gctctttgca ggaggagacc tcggaagcag 420
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 gtggagctgg ccgtcagtgg gatgcagacc ctcgcccttc agcaccgctg ccgaggtggc 540
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 caccggcct accccaccgg acttcgatc gccctgggtg gagaaggcta acagaaccag 660
 aggcgtgggc aagganggca tccaagggcc ttggggggca aaagggaag cttgtgagaa 720

ccaacccccct caaaggggggc aannaacccc caaccctcaa aaccaaaggg aaagaangaa 780
 acaa 784

<210> 3936

<211> 99

<212> DNA

<213> Homo sapiens

<400> 3936

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<210> 3937

<211> 688

<212> DNA

<213> Homo sapiens

<400> 3937

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 taaaaagtac agcatctggc ttagcttcag atacttcag ttttctaaag accagtgttt 180
 tgaatgcttt ttgttactta ggtaagctcc atcaactgta aaataagtat tgggtggattt 240
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688

<210> 3938

<211> 796

<212> DNA

<213> Homo sapiens

<400> 3938

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attagactaa agaagagagg taggataatc atgggcattg gcagtggaaat tgaaagagta	180
atttcagaag cagaatggtc agatgttggg ggtgattggt tatagagttt aagaattgta	240
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aaagggcata tttaatcagt cacangagtc taatgctaca aagtagtttt ttaaaaagat	720
gactagattg gcaagttcaa gggtaatcct ttttaattggt ttaattanat atcacttagc	780
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<210> 3939

<211> 486

<212> DNA

<213> Homo sapiens

<400> 3939

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 ttcccacagc agaagacca acaaagacac caggggagcc cggcgggctg ggcgcgagaa 420
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<210> 3940

<211> 607

<212> DNA

<213> Homo sapiens

<400> 3940

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 ctccaagtgc tgtgcccatt gcaatgggct gcctgctgga nctggncctc aaggtggctg 600
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<210> 3941

<211> 646

<212> DNA

<213> Homo sapiens

<400> 3941

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ttagtcagtt tcttctctta tatgctctgg ttgagcttga atanaccagt tgttacttaa 600
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<210> 3942

<211> 654

<212> DNA

<213> Homo sapiens

<400> 3942

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aataagtaca tctgtcataa attaggactg tgtggaaata aatgtaaata ctggtcttgt 180
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actgaatccc cgagtaaata tcttggttcg aggagaagtt tacaaatgct ctcttgagcc 420
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<210> 3943

<211> 682

<212> DNA

<213> Homo sapiens

<400> 3943

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<210> 3944

<211> 556

<212> DNA

<213> Homo sapiens

<400> 3944

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<210> 3945

<211> 689

<212> DNA

<213> Homo sapiens

<400> 3945

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gtggcccttc taaaagtttc cctaattgatg gaagctgtca gttgtcctat ctgtgcagaa	180
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<210> 3946

<211> 606

<212> DNA

<213> Homo sapiens

<400> 3946

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<210> 3947

<211> 665

<212> DNA

<213> Homo sapiens

<400> 3947

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gattgcttga gtccgggagt tccgaaccgg cctggacaac atggtgagac cccgtctcta 180
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<210> 3948

<211> 861

<212> DNA

<213> Homo sapiens

<400> 3948

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<210> 3949

<211> 878

<212> DNA

<213> Homo sapiens

<400> 3949

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 gtaaaaactt tgagaaagca atgttgccct cttccacag gagtattttg gtagctgtaa 420
 gagaatgcac attgcaaatg actcaaatgt ggtaaaatgt tggtttcata attctgaaat 480
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 aatatgacgt tagctctctc tagacctatt aatttacgac atttcaaac agaggtaaac 720
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<211> 452

<212> DNA

<213> Homo sapiens

<400> 3950

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<210> 3951

<211> 615

<212> DNA

<213> Homo sapiens

<400> 3951

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aaaagagcct catacagaag cagtagctca acttgctcaa naactctata atagtgggct 540
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<210> 3952

<211> 300

<212> DNA

<213> Homo sapiens

<400> 3952

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tcttcgtcac ccccggggtc cgaggtagcc tcccttacac agcctgagaa gagcacaggc 180
cgagtgccca cccaggagcc caccacagc gagccacca ggcaagcagc ctccaagag 240
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<210> 3953

<211> 539

<212> DNA

<213> Homo sapiens

<400> 3953

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ctcttttctg aaagacaaa gcatatcgcc accttaaagt tctcagttta tttttgcaa 180
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<210> 3954

<211> 597

<212> DNA

<213> Homo sapiens

<400> 3954

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agaaggggtgg ggcagaggag cagacacccat gagggagagt ccttgggggt acatctgcca 240
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ggagggggaga gcttgagccc cactgatgat gacctccac agctcgccaa ctcaggcctc 540
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<210> 3955

<211> 726

<212> DNA

<213> Homo sapiens

<400> 3955

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cgccgacacg ctcacgcacc ctccctgcct ggccgcgcct ctgcgaccag gtgacccaat 240
gaaagaagaa aatgaaagcc ataaagaaaa gtcttacaga agaagaatac ctgtacctgg 300
acttttctca ccaaacagaa ggatgcatct ttctcttca tacatctgta actttatttc 360

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tgttatctta ctgtgactgt aaaatcttta aaatttgctt agttgtcacc aaagaggtga 420
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 caaggcagga gctcccacca atagtccaaa attgctgttt gcctgcagta gtagaacgat 540
 cagacaattt ttgtagagca ggacttgctg ttgtattgag acacataatc cagaaatcct 600
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 tgaaagcctg tgctgaagtt agtcantgga ccaagctatg tgaactcaca nccctttggc 720
 taattg 726

<210> 3956

<211> 703

<212> DNA

<213> Homo sapiens

<400> 3956

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 aatggaccat gactcccacc aaagatccct gtctctgatt caccaaagag cttcaaccct 180
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<210> 3957

<211> 849

<212> DNA

<213> Homo sapiens

<400> 3957

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gtacagtcct ggatgtcttt tttgtgcttt ctttaatttc tttccagcta tatataaatg  180
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aaacctgact gtaggtaaag ttaaattgca actaaacata tgtagacata tactaagatt  420
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<210> 3958

<211> 737

<212> DNA

<213> Homo sapiens

<400> 3958

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acagaagtgg cccggagctg gggggagatg caacaataag aaagatgctg agcttctggt  180

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ggcctttggc tctaattctg gccacacaga gaatcagtcg gcctattgtc aacctctttg 240
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 cataccctgt gggtcacatg ccatacggct ggttgacgga aatccgtgct gtgtatcctg 360
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 cccancctct gtgctgcggn tcatcgnctt catcgccagc ctcgtggggc ctaacctaac 720
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<210> 3959

<211> 762

<212> DNA

<213> Homo sapiens

<400> 3959

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 ggggacatag aggactatta cgtgggagta gccagcgatg tggagcagca gggggctgat 180
 gcctttgatc ccgaggagta ccagttcact tgcttgacct acaaggaatc tgagggtgcc 240
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762

<210> 3960

<211> 553

<212> DNA

<213> Homo sapiens

<400> 3960

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cttgaactcg caacctcagg tgatccaccc acctcagcct cccaagggtg ttgggattac 360
aggcatgagc caccgtacct ggccccctttt gttgttttga ggggcaggca gtaagaagca 420
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agggccgggc atggtggcgt gagaggccga ggtgggcgga tcacgaggtc aggagttcga 540
gaacanncct ggn 553

<210> 3961

<211> 737

<212> DNA

<213> Homo sapiens

<400> 3961

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 ctggcattca actccaa 737

<210> 3962

<211> 680

<212> DNA

<213> Homo sapiens

<400> 3962

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 cccaagaaac ctggcctcan ccttctcca tctgctgaga gcaggcaccg aaaggtgatc 660
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<210> 3963

<211> 600

<212> DNA

<213> Homo sapiens

<400> 3963

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taggtaagaa gtttctgtt actgagaact caaagggtta caagttgctg ccaccttata  180
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aaggaaatgt cactcacaga antattcctt ggcatataaa acaaagcctt gactctgctg  540
gcataagtct gagttttcat aaactggagc ttcacaaatc tgtaaancctc ataanattaa  600
    
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<210> 3964

<211> 728

<212> DNA

<213> Homo sapiens

<400> 3964

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ctaagggcac tttccagta aaattgtttt attttttgag tagccttcct atagtgggtac  300
atgttacatc agttgcgcac atcttgattt tacagaatct gtcttaagta ccaattttgg  360
    
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 gtaaccagtg ggccatttta cttcactaat ttcncttggg ggggctaatt tttattgccc 720
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<210> 3965

<211> 817

<212> DNA

<213> Homo sapiens

<400> 3965

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 gaatccaaag atgttaactg caaataaaat ggaaact 817

<210> 3966

<211> 640

<212> DNA

<213> Homo sapiens

<400> 3966

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ctcactctta ggcttccaac ggaggtgcgt gtcctgcgtc gcgggggtccg ctttctctgg  180
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ggtcatcaca gagaaggaga cccaggatgat tctacttgac acacctggca ttatcagtcc  540
tggtaaacan aanaggcatc acctgaagct ctctttgttg gaagatccat ggaagagcat  600
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<210> 3967

<211> 631

<212> DNA

<213> Homo sapiens

<400> 3967

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acagagcaaa cccatctcta aaagaaagaa agaaatttta aaaaggagga aaggaaagaa  300
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aggagaaaaan aggaaaggaa aaaggaaagg aaactgttcc cattaaacac taactcccca 360
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<210> 3968

<211> 709

<212> DNA

<213> Homo sapiens

<400> 3968

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 aataaaatga agagaaaaat cggctgcccc aagtatcttg cttttctgtg caccacaagt 420
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 aatgttctgt tttcaggtaa cagttgtttt tacaccaggt cgtttggtg ttgtgaccaa 600
 ctcatccact tattggccct cattcngtta gaactgttta atgatctgct cncctttcct 660
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<210> 3969

<211> 666

<212> DNA

<213> Homo sapiens

<400> 3969

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tccggagcct cagcgccgcg cagttttttt gaagaagcag gatgctgac taaacgtgga 180
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taagccagcc atataatata agagtaataa acttgcagac ccaaagaata aaataaattc 600
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aaatgg 666

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<210> 3970

<211> 555

<212> DNA

<213> Homo sapiens

<400> 3970

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agtagggcct gatgtaaaca cccgagccgg gtcceaaggc ccgggagggtc agaaaaccgg 60
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aaggcggcag gaagctggag cacgatccca ggaggaacaa tcctgcacca tgactcaaca 180
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gagatgctgc accgctccaa ctttctggcc ttgatgggcg gtggtagtag tcccangttc 480
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ggcctcccan aggca 555

<210> 3971

<211> 762

<212> DNA

<213> Homo sapiens

<400> 3971

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tccgagcctg tanggagaag gaccgtgacc ctgaggcacc aaccaccact cagagaagga 540
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<210> 3972

<211> 711

<212> DNA

<213> Homo sapiens

<400> 3972

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acaacaagtt tggaatcaag accatgttgg agacagaaga aggaatccta ctgctgggtca 60
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gcagacctca gtactataaa gttgatttga agaattgtatt tcccaaatag ntctgcacaa 660
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<210> 3973

<211> 694

<212> DNA

<213> Homo sapiens

<400> 3973

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atgagcactc acagttttgg gtcctgtgct gggacactgt gcaagtcctg tgcataatc 600
acctgttgca tttccacag tgaccaatg aagtanatac tggtatcttt accaatttat 660
anatgagcaa cctgaggntt cacaaaattg caca 694

<210> 3974

<211> 526

<212> DNA

<213> Homo sapiens

<400> 3974

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acttgaggga tcggaatgga tggggcggag ttctcttcag gctagccttc tgggaaaagt 180
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aatgaattaa tgaatgagag ttcctttgct ttaaccattc ctggatgcct gcaaagtaag 360
gaataatgca gtttttatgt atctganitt ataaggggtt actctttcaa gagtaacaaa 420
aaaatgcaaa ctgnaatgaa actacattgt gtttctaagt gtgaaaacga caggctgccc 480
cgtttttacn aattgcattt gcattttaag gnactactga aggtca 526

<210> 3975

<211> 743

<212> DNA

<213> Homo sapiens

<400> 3975

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aaagtgaggg tagcttttgt ggacatgctg ttgaagatca aagctgtgag ggctgctaag 180

ttttggaaaa tatgtcccat ggagcacatt ctggttcgtc tggaaactga ttctcgacct 240
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 tgacagaagt atggnaaata ataaagaggg caaactttac acgattaaca agtttgccctc 660
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<210> 3976

<211> 757

<212> DNA

<213> Homo sapiens

<400> 3976

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757

<210> 3977

<211> 640

<212> DNA

<213> Homo sapiens

<400> 3977

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gcccagtttt gacttttgnt agcctgacac tnccaaacag ttgtagaatc cgatanatga 600
ctgatggcaa aagattgtga acatgtggaa gaaaatcagt 640

<210> 3978

<211> 510

<212> DNA

<213> Homo sapiens

<400> 3978

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gtgatgtata tgcaaatata tttgcatctc ctggtcatat actaatttgt tggtagatgg 180

ttagtagcca agaaacactg cttatggcaa gagaaagtca agtgaaagat taaagaaaat 240
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 tacgcttttg gccatgtgta cactgggtgca ttttcaagac agtggctatc ttttcacttc 360
 tgtttggcta atcatgttat gttgttctga agttactgct gccctatacc cacttcacac 420
 agcctgagct ctgtctcctt ccaatgaaca tgaanacttt ttgattccnt agttcctggg 480
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<210> 3979

<211> 739

<212> DNA

<213> Homo sapiens

<400> 3979

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 gcggctcacg gaactatna 739

<210> 3980

<211> 736

<212> DNA

<213> Homo sapiens

<400> 3980

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tgcacaaagc atcgtactcc ctggaggcaa acacatcggg ctgcttcagc gttagcggga 180
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gcagtatcat aatttccatc ctcttatttc agaatttcac ttgaggcaaa aataccacaa 300
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aaccaagtac ttgttacatc accaatggta ccaggagatg aagaccnggt ttgagcagg 660
agcgagatta ccacccaaaa aggagctcct gaggcagccc acttctanca aactttttac 720
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<210> 3981

<211> 742

<212> DNA

<213> Homo sapiens

<400> 3981

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cctgtgaatg tgtttgctct catgaacatg caatgagaag actgatcaat ctgttacggc 240
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 atatttnagt gaatgattat attttttaaa aangttacct ggggcttttt ttgggttgtc 720
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<210> 3982

<211> 799

<212> DNA

<213> Homo sapiens

<400> 3982

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 gacaggagtc caccactgng tccatttcac aggtaccgct acgggccatg acatcacaga 720
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<210> 3983

<211> 613

<212> DNA

<213> Homo sapiens

<400> 3983

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<210> 3984

<211> 662

<212> DNA

<213> Homo sapiens

<400> 3984

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ggtcgagtca gcggcacaga agacgtcgga ggatttggag agagcggcgg agaataatgt  180
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 ct 662

<210> 3985

<211> 708

<212> DNA

<213> Homo sapiens

<400> 3985

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<210> 3986

<211> 618

<212> DNA

<213> Homo sapiens

<400> 3986

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aagcccttcc acctncca 618

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<210> 3987

<211> 711

<212> DNA

<213> Homo sapiens

<400> 3987

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 ggatgctgaa gaatccttgg aggangagga agcgctggac cctctgggca ttatgcgctt 660
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<210> 3988

<211> 741

<212> DNA

<213> Homo sapiens

<400> 3988

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<210> 3989

<211> 846

<212> DNA

<213> Homo sapiens

<400> 3989

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aatgtatgtg atgtttcatt tattcaagat ggggtctgat aaactgtagg actaggagac 360
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aangctttgt tagggcaatt agacattttc atttttcaag ctgattatag catttatcct 780
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<210> 3990

<211> 715

<212> DNA

<213> Homo sapiens

<400> 3990

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cctttgtttt tacccatttc taattttaca ttctgtctg aacagctttc tgtcttgaac 240
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<210> 3991

<211> 535

<212> DNA

<213> Homo sapiens

<400> 3991

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<210> 3992

<211> 774

<212> DNA

<213> Homo sapiens

<400> 3992

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caccgagaaa gggaagaggc gaatctgaaa caggatgccg gcagaagttc cagacatccc 300
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cccgttttgg ggcaatcttt ttctctcctg gntaaatggg gcttgttgat cattttctct 720
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<210> 3993

<211> 416

<212> DNA

<213> Homo sapiens

<400> 3993

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tggtgaagct cgtgctgccc ttgctggcc tgtctgcca ctgccgaccc gtgtcccgtg 180
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tgtgcctgga gcccttcaact ccaggggacg tgggtgtgtc aggggtgtta gggggattgt 360

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<210> 3994

<211> 786

<212> DNA

<213> Homo sapiens

<400> 3994

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 gtcttttgc t agtctggact ggagagcaac ttccctgagt caggactctt gctgctaatt 180
 gcagaaaacc agcagtctct gtgaagtgt ggtgttctca gagttcagct gtaaaatata 240
 gaatcctcat taattgtatt tacaactata ttgagcaaac caatgttggt ctttattaat 300
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 caccccaaga taagaagaca gatagagcaa gggatggaca tggtcattct ctcagtgatt 420
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 ggaaatgaag tggttaatgg agaaaattta agctttgcat atgaattcaa agctgatgca 540
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 acagagcctc ttttggcaga attaccattt ccaagtgttc tggaatctga agagacaccc 720
 accaatttat ctgattgaac tgacattgta ncagttgctc ccgnacttca agcctgtgct 780
 agactn 786

<210> 3995

<211> 752

<212> DNA

<213> Homo sapiens

<400> 3995

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<210> 3996

<211> 786

<212> DNA

<213> Homo sapiens

<400> 3996

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<210> 3997

<211> 739

<212> DNA

<213> Homo sapiens

<400> 3997

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antgattgga naatcactg 739

<210> 3998

<211> 739

<212> DNA

<213> Homo sapiens

<400> 3998

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<210> 3999

<211> 585

<212> DNA

<213> Homo sapiens

<400> 3999

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<210> 4000

<211> 683

<212> DNA

<213> Homo sapiens

<400> 4000

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 agaccacag acaaggtctc tactgccttc tctttgtatt gcttttgtgg gaggttggag 180
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 gaggcacgaa gttttgtgt tcaaaggttt ctgggttagt aatgcttggg tttcaaagct 660
 gncatcatct tatagnctt ttg 683

<210> 4001

<211> 262

<212> DNA

<213> Homo sapiens

<400> 4001

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cagtgtctgg gctctggctg ccttctccac ccaccccacc cctcactcag gtcgtgtttt 180
caggagctca aggctggagt gtcttgacag taaggggagg ggagcggagg cggaggcncc 240
tcangcagcc tctccatcta cn 262

<210> 4002

<211> 615

<212> DNA

<213> Homo sapiens

<400> 4002

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<210> 4003

<211> 697

<212> DNA

<213> Homo sapiens

<400> 4003

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catttgttag aaagcttctc tgtgtattta gtaggcattg ncttcaacat gtaccactgg 600
tctggctttt ggtaggcca ttaatagtgt catgtgacag cctttcaagt ataggtgctt 660
cccggttac nggggggctn cattccagtn aacacat 697

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<210> 4004

<211> 651

<212> DNA

<213> Homo sapiens

<400> 4004

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<210> 4005

<211> 813

<212> DNA

<213> Homo sapiens

<400> 4005

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 ggaactttct ggaattttgg gggaaggtna aaa 813

<210> 4006

<211> 745

<212> DNA

<213> Homo sapiens

<400> 4006

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<210> 4007

<211> 597

<212> DNA

<213> Homo sapiens

<400> 4007

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 gtccggggccg cgtccgcagt gctgctggct gtccttggt tgctgggtgc aaagtgctgg 180
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<210> 4008

<211> 681

<212> DNA

<213> Homo sapiens

<400> 4008

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tcccagcctg gggctccgca gtaccognag ctacttcatg gaatgcctgg tggacnccn 660
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<210> 4009

<211> 652

<212> DNA

<213> Homo sapiens

<400> 4009

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 aatttagctg ggtgtggtgg tgcgtgcctg tagtctcagc tacatgggag gctgaggtgg 420
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 tactcatgat gcttggactt gggggaagat gccaaactctg gcacatgtca nttactacat 600
 naaaagtcaa gtgcaatgtc aaatccagag cntcaagagg aaaaaaagtt ca 652

<210> 4010

<211> 730

<212> DNA

<213> Homo sapiens

<400> 4010

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 aacaccatct tgcaggagca acggatggcc tttacattg ctgaggcttt caaagatgtg 180
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 gacctggcaa cttggaagg ctgtctttca aacttcagtt cctatctgac taaaacagcc 540
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 aatgaaagat tcaagaattt tactttggtg gtactgaaca atgtggcaga atttgtgtgc 660

aaatatnaac tattataaaa tctgtttcaa gtatgcagtt ttcttttggt agaaattggt 720
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<210> 4011

<211> 671

<212> DNA

<213> Homo sapiens

<400> 4011

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gncggctttn t 671

<210> 4012

<211> 737

<212> DNA

<213> Homo sapiens

<400> 4012

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<210> 4013

<211> 705

<212> DNA

<213> Homo sapiens

<400> 4013

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 gcttcagcca tgcaattcgc ttattaaaaa ttctccctg taagggtata actgaggaaa 180
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<210> 4014

<211> 797

<212> DNA

<213> Homo sapiens

<400> 4014

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<210> 4015

<211> 662

<212> DNA

<213> Homo sapiens

<400> 4015

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agagaactca cgtcaggcaa aaatgtttta caagagaggc anctaagtct tttccacagn 600
ggatgacaca agtnccttt acaaaaccac ccacagatcc aaccccaagg aaactcttgc 660
tt 662

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<210> 4016

<211> 824

<212> DNA

<213> Homo sapiens

<400> 4016

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 ggataagang gaagaaaatg accagtcaac tcataaagtg gatggtatat gtccgagggt 720
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<210> 4017

<211> 613

<212> DNA

<213> Homo sapiens

<400> 4017

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<210> 4018

<211> 587

<212> DNA

<213> Homo sapiens

<400> 4018

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ctatgctttc accattagga agagcgtccc cccattccta ataggcatg gtatacagat   540
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<210> 4019

<211> 598

<212> DNA

<213> Homo sapiens

<400> 4019

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<210> 4020

<211> 568

<212> DNA

<213> Homo sapiens

<400> 4020

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<210> 4021

<211> 603

<212> DNA

<213> Homo sapiens

<400> 4021

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<210> 4022

<211> 598

<212> DNA

<213> Homo sapiens

<400> 4022

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<210> 4023

<211> 650

<212> DNA

<213> Homo sapiens

<400> 4023

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<210> 4024

<211> 775

<212> DNA

<213> Homo sapiens

<400> 4024

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tcaaggagaa ttccacagtt atcanagacc ctgtcttctt tgttcaccac tatattaccn 720
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<210> 4025

<211> 623

<212> DNA

<213> Homo sapiens

<400> 4025

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tgggtgctgg gcagggggtg ctgaggcctc acagcccggc ggcttggccc ccacccaccc 180
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agcgggcgcg gggcggcgtc canggggctg aacgaggtct gggcaggang acagagctga 540
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<210> 4026

<211> 622

<212> DNA

<213> Homo sapiens

<400> 4026

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caatggagat aatttagtat tactaacata gtatttatag gcttaagaca aatgtacttg 180
 tgggcgatca aatgtaatta ctgttacaga ctttacaaaa ccgtacgtgg ttctcaggca 240
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<210> 4027

<211> 796

<212> DNA

<213> Homo sapiens

<400> 4027

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796

<210> 4028

<211> 541

<212> DNA

<213> Homo sapiens

<400> 4028

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<210> 4029

<211> 762

<212> DNA

<213> Homo sapiens

<400> 4029

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agaggatcac ttaccaggac tgctttgaac ttaatagcaa tggtaaaagc aaacagacaa 180
gcaactactt caaaatgttg aaaagaaaat tatttccagc tttcaattct atactcagac 240
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aagctatcaa acaaatagag ggagccagcc atttttagac atccagggtc tcatttacct 300
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 attcttaccg gtatttgcct tgtcttgacc atgtggtgat gaaattcctg ctctcttctg 660
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<210> 4030

<211> 704

<212> DNA

<213> Homo sapiens

<400> 4030

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<210> 4031

<211> 546

<212> DNA

<213> Homo sapiens

<400> 4031

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gagttcacct ctcccacat ttcactccaa aggtgagata aggtanagtt gctaaaggtc 480
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tcattct 546
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<210> 4032

<211> 653

<212> DNA

<213> Homo sapiens

<400> 4032

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 ccagaaaccc atccttcact tcttctctcc ttcctttac cttccacatn caaatccatc 600
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<210> 4033

<211> 690

<212> DNA

<213> Homo sapiens

<400> 4033

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 aaaaaaatta gcctggtgtg gtggcgccgc ctgtagtccc agctactcgg gaggctgaan 660
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<210> 4034

<211> 605

<212> DNA

<213> Homo sapiens

<400> 4034

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cccaccagc cctggctacc cancccgtg ggcgcanan gcatggaagc cgaccccggg 600
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<210> 4035

<211> 637

<212> DNA

<213> Homo sapiens

<400> 4035

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gctctaagca ctatgactag ttctgttcag atttataatt tatctcanaa cattcaagaa 540

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gatgatcttc aacagctgca gctcttcaca gaatacggtc gtcctggcaat ggatgaaatt 600
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<210> 4036

<211> 659

<212> DNA

<213> Homo sapiens

<400> 4036

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<210> 4037

<211> 695

<212> DNA

<213> Homo sapiens

<400> 4037

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<210> 4038

<211> 483

<212> DNA

<213> Homo sapiens

<400> 4038

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<210> 4039

<211> 617

<212> DNA

<213> Homo sapiens

<400> 4039

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<210> 4040

<211> 670

<212> DNA

<213> Homo sapiens

<400> 4040

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<210> 4041

<211> 653

<212> DNA

<213> Homo sapiens

<400> 4041

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<210> 4042

<211> 721

<212> DNA

<213> Homo sapiens

<400> 4042

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cagataaact gcgactaaag aaattacagg aagagtcaga cctcgaatta gcaaaggaaa 480
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actttcagag tttggaaagt tactaaaaga taaaattaca caatatgaaa agtcactata 600
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<210> 4043

<211> 699

<212> DNA

<213> Homo sapiens

<400> 4043

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gagaataagc tagaaaaatc atctggtcaa ctgaacaaac aggaaaatga catacctact 360
gatcttgtcc ctgttaacct actattagaa gtgaagaagt tattaatgc aattaatact 420
ctaccaaaaag gtgtgggtcc tcacattaag aagttcttac aagaagattt ttccttccaa 480

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actatgcaga gagaagttgc agctaacagc cagaatgggtg aggaaattgt tcctgctttg 540
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tataccgcac accagattaa tattggttat tatttgacat tactggnttt atatggagta 660
gcnctcactg aaagangaaa gaaagaggat tattcagaa 699

<210> 4044

<211> 647

<212> DNA

<213> Homo sapiens

<400> 4044

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<210> 4045

<211> 758

<212> DNA

<213> Homo sapiens

<400> 4045

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<210> 4046

<211> 492

<212> DNA

<213> Homo sapiens

<400> 4046

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 aagattgagc tttggaaggc cacgaacctat tattctatct aaggtgtgtg ttttgntttg 480
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<210> 4047

<211> 386

<212> DNA

<213> Homo sapiens

<400> 4047

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gcgatggcgt cccatggagg aaacacactg gaaatcgtgc agaaaatggg aagatgcagg 180
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tgcctgctan gaggagcgtc tccaccagca acaggccggc ccctgaggga gacagcagag 300
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<210> 4048

<211> 712

<212> DNA

<213> Homo sapiens

<400> 4048

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aaacctgaaa cttaaatttt tctgaaacag aagcagtga gattctccct ggtaacaact 180
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gcaggctgct ggggggtttg tagcgcttgt aggggtggctg agttatttct ttctgcaaac 480
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actcctgtca gcattataga gacttgcact atctgttaag taaatgtgac ttaggagaag 540
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<210> 4049

<211> 675

<212> DNA

<213> Homo sapiens

<400> 4049

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<210> 4050

<211> 633

<212> DNA

<213> Homo sapiens

<400> 4050

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gggatctgta ctgagcaatt agagattcaa aacaactgtc acacacgaca gaggttggtaa 180
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ctgaaccata attctaattc tgaggctaatt ttg 633
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<210> 4051

<211> 721

<212> DNA

<213> Homo sapiens

<400> 4051

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TTTTtaacca cTTtaacaaa ccatgtaacc ctgagagcta tgcttggttg acaacatggt 180
gtaatgtacc acaggctgta gagccagata ctggggtttg aatccttatt caacatggga 240
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gccactact ttgtcttate aggcagaata acaaaggaaac aatatttaaa aagcaactag 480
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tggcactgtc tagaatcagc acctaagaac acaggcgttt agtggttgact ggaataaaaat 600
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ggaatcgggt gctggtgcag ggagattgan cagggatgaa nagagaaaat cacagagtgg 660
 aaagggatca ggtttggana agttcaatgg ggggcttgcc aggacataag cctaatatgt 720
 g 721

<210> 4052

<211> 648

<212> DNA

<213> Homo sapiens

<400> 4052

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 catactgtcc aaaagcaaag caaatcctga aagcagaaag agccactgga cacgtacaag 180
 aaatcttcga taagattaat agccaatttc tcatccaaca tcatggaagt gagaaggcaa 240
 tgagatgaca tattcagtgt gctgaaagga aaatcttggg tggctcttgat actttagat 300
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 ttgtttgtac ctatccttct tgggaaggct ttccagatat ttgaatggct tgggtgttgt 420
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<210> 4053

<211> 573

<212> DNA

<213> Homo sapiens

<400> 4053

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 gaaaggctaa atacctgtt cctcttcaaa ctttttaggg atttttagtgc cagtataat 240
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<210> 4054

<211> 773

<212> DNA

<213> Homo sapiens

<400> 4054

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 aatgttgcta tgggaacccc agcagatctc cttgtgtctc cgtttaaaaa tcatggccca 480
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 caaaaatata tcaaccaaatt ttgggactgt gagacacaaa ctggtctctt ttgggctctg 720
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<210> 4055

<211> 584

<212> DNA

<213> Homo sapiens

<400> 4055

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nagctccnaa catccttggg gaaaggaaga gcatttattc gctactcctt ggcgaccag   180
aggttggcag acaccttaca gcagtgttc atgaacacca aagtgaccag tgactggtac   240
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gagctgactg aggttcagnc ngacctggcg tcgaggggct ttgacttggg tgctgcctgn   360
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tccaactatg acctgaacag cncctaacc aacnaggcat tggagggctt tgatgagatg   540
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<210> 4056

<211> 664

<212> DNA

<213> Homo sapiens

<400> 4056

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agaaaccttt aatccaggcc taaatttgca tagacctgac attcagctgc cttgcagttg   180
cttcctccca tgagccaagg tgggtgtcaga gggcaactgg atgactcgca gtaccacagc   240
actgggacag acagaagcca cacctttctt ttgggttttt gccaaagcctc ctccatctcc   300

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catcagtgtgct gtgggctggc tgcaagcctc gaaacagttc tcctggaagg gaggtttttg 360
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<210> 4057

<211> 547

<212> DNA

<213> Homo sapiens

<400> 4057

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<210> 4058

<211> 632

<212> DNA

<213> Homo sapiens

<400> 4058

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gctacggcgc cctccacaac agaggtgccc ccacccccga ggaccctgct ggaggcgctg	180
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<210> 4059

<211> 778

<212> DNA

<213> Homo sapiens

<400> 4059

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tttactgtta ccattatttc ctggctttac attggtttaa gataatatct gtagggtata	180
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 gtaaactctga agcttcagag aaaaganggt cagggggtag gacatggacc atttcagtta 720
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<210> 4060

<211> 719

<212> DNA

<213> Homo sapiens

<400> 4060

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<210> 4061

<211> 638

<212> DNA

<213> Homo sapiens

<400> 4061

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cccaggcatt tcagatgaga gatacttaag cctgtactaa ttttaattatg ttaaaggacc 180
caatatcttt acaaagaaag ctgctttttc cctggggaca actaaacata tgtgactatt 240
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gtttctcatt ggtaaaatta aagnaagaaa attttccctt ancattgggt taaggagtna 600
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<210> 4062

<211> 628

<212> DNA

<213> Homo sapiens

<400> 4062

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628

<210> 4063

<211> 545

<212> DNA

<213> Homo sapiens

<400> 4063

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<210> 4064

<211> 672

<212> DNA

<213> Homo sapiens

<400> 4064

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<210> 4065

<211> 560

<212> DNA

<213> Homo sapiens

<400> 4065

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<210> 4066

<211> 690

<212> DNA

<213> Homo sapiens

<400> 4066

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<210> 4067

<211> 605

<212> DNA

<213> Homo sapiens

<400> 4067

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tcagagtaaa agggagaatc tcaatgaaat aaatttggaa aacttctatg aaccatcatt 480
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<210> 4068

<211> 648

<212> DNA

<213> Homo sapiens

<400> 4068

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<210> 4069

<211> 612

<212> DNA

<213> Homo sapiens

<400> 4069

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<210> 4070

<211> 550

<212> DNA

<213> Homo sapiens

<400> 4070

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<210> 4071

<211> 605

<212> DNA

<213> Homo sapiens

<400> 4071

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gtgtgtgtgt gtatggaatt gatttaatng gaaaatatcc ttttaattgn gttaagtgtt 600
gntaa 605
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<210> 4072

<211> 739

<212> DNA

<213> Homo sapiens

<400> 4072

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<210> 4073

<211> 805

<212> DNA

<213> Homo sapiens

<400> 4073

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 gataaatgat tgccactttt tatatggttg tttagtttca agcaatatga tgtacattac 360
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 agcataactt ttacatttaa tttttcatat gaaatagcaa ttagttacct gctgggttac 720
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<210> 4074

<211> 757

<212> DNA

<213> Homo sapiens

<400> 4074

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<210> 4075

<211> 731

<212> DNA

<213> Homo sapiens

<400> 4075

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ggaaaagcat cagatttttc tttggaagca tctgtggctg anatgaagga atacataaca 660
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<210> 4076

<211> 647

<212> DNA

<213> Homo sapiens

<400> 4076

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<210> 4077

<211> 711

<212> DNA

<213> Homo sapiens

<400> 4077

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<210> 4078

<211> 596

<212> DNA

<213> Homo sapiens

<400> 4078

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<210> 4079

<211> 694

<212> DNA

<213> Homo sapiens

<400> 4079

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 aatgttttca gctgtggttg taagaaacac attttaaatt gcacctagta tagacataca 180
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<210> 4080

<211> 758

<212> DNA

<213> Homo sapiens

<400> 4080

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tatttcctga ctattccata tgaagaatgt aaaaggagga agangtaagt ttttgaacca  720
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<210> 4081

<211> 734

<212> DNA

<213> Homo sapiens

<400> 4081

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ccattcctct cccctccctt ctctctgcga cccctccctg ttaggcccc gcctcttctc 360
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 gactccaggg aatcagagtt ctggccgcgg ggtgaccag ctctctgct accatgaata 660
 ggccccctct gaaancggtc caggatcctg cacatggcgc ttgaccgggg gcctnagaac 720
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<210> 4082

<211> 652

<212> DNA

<213> Homo sapiens

<400> 4082

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 cactcggcgc tgaaccgct gcgcgcggtg tggctcacgc tgaccgccgc cttcctgctg 180
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 tttgatgtcc ccaagagata tttttccac ttttatatca tctcagtgt gtggaatggc 360
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 catggtttgc tcagaattct cggggcgga cagttccagg gaggggagct ggcactgtct 480
 gcattcttag tgctagtatt tctgtggctg cacagcttac gaagactctt cgagtgcctc 540
 tacgtcagt tcttctccaa tgtcatgatt cacgtcgtgc agtactgttt tggacttgct 600
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<210> 4083

<211> 700

<212> DNA

<213> Homo sapiens

<400> 4083

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tctcaggagc atntgacaac agcatcatca tgtgggacat cggaggaagg aaaggccgga 600
cgctgttact tcagggccat catgacaagg tgcagtcctt tgtgctacct tcagctnacc 660
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<210> 4084

<211> 639

<212> DNA

<213> Homo sapiens

<400> 4084

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tctgacaata aaggtgtgaa ttctggaaga ttggtggctt gcataaccac tttgttctta 180
ttcagcaaaa taagaccca gctcatgggt aaacatgcaa tgactatgca accatacctt 240
accactaaat gtagtacgca aaatgatttc atggttatct gcaatgttgc aaaaatccta 300
gagctagtgt taccactgat ggagcatcca agtgaaactt ttcttgccac tattaggagaa 360

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<210> 4085

<211> 583

<212> DNA

<213> Homo sapiens

<400> 4085

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 tgtgtgtgtg tgtgagagag agagagagag agagagagag agagagagag agaaagagag 180
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 cacacacaca cagcccacaa ggaaatgcct gacaattacg ctccatgttc tgaaactgac 420
 gtgtcatcat caccacagaa ttgccacttt atgcctcagt ttacccaact tcanagtaga 480
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 aaagaagtgg tttgatgagg ggaaaagctc tancnaaaa gcn 583

<210> 4086

<211> 561

<212> DNA

<213> Homo sapiens

<400> 4086

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 tagactaatg actgtccgaa acatgcctc catctgtaat atgggcacca atgcctctgc 180
 tctggaaaaa gacattggtc cagagcagtt tccaatcaat gaacactatt tcggattggt 240
 caattttgga aacacatgct actgtaactc cgtgcttcag gcattgtact tctgccgtcc 300
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 gtgcctggcg gaccttttcc acagcattgc cacacagaag aagaagggtg gcgtcatccc 420
 accaaagaag ttcatttcaa ggntgagaaa agagaatgat ctcnttgata actacatgca 480
 gcangatgct catgaatfff taaattantt gctaaacact attgcggaca tccntcagga 540
 ggagaagaaa caggnaaaac a 561

<210> 4087

<211> 674

<212> DNA

<213> Homo sapiens

<400> 4087

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 cgggaactgg cgaggtagtt ccttcgcggt ggagagacct ggaatggcca aatatcaagg 180
 tgaagttcat agtttgaaac tggatgatga ttcagttata gaaggagtaa gcgaccaagt 240
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<210> 4088

<211> 666

<212> DNA

<213> Homo sapiens

<400> 4088

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gaggtgccta agaacaacgc taacacgggg ctcaaataag tttggcanat atagttgatt 600
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aagggg 666
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<210> 4089

<211> 559

<212> DNA

<213> Homo sapiens

<400> 4089

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cgaagcacct cagagctcct tcgagcgtat cccttcggga aagccccacg ccttccccga 180
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 cctccgcccc ctgggttcaa gtgattctcc tgcctcagcc tccccagtag ctgggattac 360
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 tgtggggaaa actgcaattt tggagcagct cctttatggg naatcatact attggaatgg 480
 naagattgcg aaacaatgga agatgtatac atgggttcag ttingaaacag accggaggag 540
 taaaaggaan anttacatc 559

<210> 4090

<211> 791

<212> DNA

<213> Homo sapiens

<400> 4090

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 ttaagatatc cttcaagatc tggaggccat cctttaagct tcttgcaaca gtctgggagc 180
 aaagagttta ctgccactg ggtagtgggc catggacacc ccagtctcca ccagaagttc 240
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 caagcagaaa actggggcaa ccattttggg gcagacactg ggcctagcaa caaggagttt 720
 tttttcaana cccctangta gcccctanaa aggccaagcn aagacagaaa ctggttcaat 780
 cccctgnaaa a 791

<210> 4091

<211> 647

<212> DNA

<213> Homo sapiens

<400> 4091

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agcagcatgg cgagtgtcct gtcccagcgc cttggaaagc ggtccctcct gggagcccgg  180
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cccgagccc aagccctggc ctacaggccc gtctccaaga acatcgatgt cccaagagg  600
gaaatccggn cgcantggga aatggntgaa natgatggng ggcatgg                    647

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<210> 4092

<211> 658

<212> DNA

<213> Homo sapiens

<400> 4092

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ttttctgggc tcggacctag gtgcggcgca catggccaaa cgtaccaaga aagtcgggat   60
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aatcagccag cacgccaagt acacttgctc tttctgtggc aaagtaagta aggcaaagtc  180
tctggtgaga ggagaggagg ggcaggtttc ttaccaagt gaggcctgac ttcaaggatat  240
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agataaaagt gttgatggta acttcagatt ttgtgagacg tttttcattt aaagaaaacc 360
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tgctttgtgg gaaatgattc catcagtttt gtctactgat gtttctgcac caactcccaa 480
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aaanggaggc tttcanaatc cctgacaata aaggngaate caaaatttan acntctgg 658

<210> 4093

<211> 680

<212> DNA

<213> Homo sapiens

<400> 4093

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gaaccggagc atggaggcgc acaacatcct cagcaaacgg ggattcagcg tccgatcctt 180
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gcaggagtgc naggagaata tggccgcacc tttctgcana ccgtctgctt ctactgagcc 660
aagngcccgc atggganccg 680

<210> 4094

<211> 525

<212> DNA

<213> Homo sapiens

<400> 4094

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gaagcgggag gatcctttga ggccannagt tccaagctgc agtgagcccc tgatcgcacc 480
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<210> 4095

<211> 703

<212> DNA

<213> Homo sapiens

<400> 4095

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aggggaaggcc caaaaccang cnanggaagt aaagagtga aggaacaacc aagcctgcag 660
agaatggaga cgtccaacct ganantcacc ttgacttctg caa 703

<210> 4096

<211> 578

<212> DNA

<213> Homo sapiens

<400> 4096

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<210> 4097

<211> 823

<212> DNA

<213> Homo sapiens

<400> 4097

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<210> 4098

<211> 758

<212> DNA

<213> Homo sapiens

<400> 4098

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<210> 4099

<211> 881

<212> DNA

<213> Homo sapiens

<400> 4099

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<210> 4100

<211> 624

<212> DNA

<213> Homo sapiens

<400> 4100

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aagcagatgg actgagcaca aaccactggc tgatcgggac agacaagtgt gtggagagga 180
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<210> 4101

<211> 732

<212> DNA

<213> Homo sapiens

<400> 4101

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gatatgctgc cttctccgga gcagactctt tctcccttaa gtaaaatgcc tcaactctgtt 180
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cctagtgccg gtgcattggt ccaacctcca gccaanacag aggaaggga gactcattct 480
gtaaataaat ttgtggacat cccacagctt ggtgtgtctg ataaggaaaa taactctgca 540

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cataatgaac agaattccca aataccaact ccaactgatg gcccatcatt cactgttatg 600
 agacaaagtt cttancatt ccaaaaagct ctgacccagn ncaagtnca cagagttttg 660
 ctgactgcaa tccgttcggg agaaggtgct gccaaatttg gaaaaggggt taccattcca 720
 tcaanattca aa 732

<210> 4102

<211> 801

<212> DNA

<213> Homo sapiens

<400> 4102

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 ttacagataa cttttcaaaa attcatcatt cacccttgat ttaattatit ctctggcaat 180
 tatttaatat acttctcgga gtctgttaag tacttaaacc aagaactacc attattccta 240
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 gaaagtagca taaatatttt ctattaacat ggctttacaa ctgctaaaac ttatagtata 420
 aaaatgtact aacaagagac taattcaaga agttgcagga tacacaattt ttaaaaatct 480
 catttctaca tcttagcagt gacaaactgc aatttaaaaa gtgtgtttgg ttattaatat 540
 atatgagact tttaaagaaa gttatataac tacatagaga taaattaaga aagatgccta 600
 aatagaagca agtttaaaga gctatatitit taaacatgga acaanctccc atgggagcca 660
 tgccagtggg agtgggaaaa gtagtacatg ggggagatgg ggggagnttt ttggaaaaa 720
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 tcactcccna agnnaatcta a 801

<210> 4103

<211> 598

<212> DNA

<213> Homo sapiens

<400> 4103

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tttgaagcc tgggcggcgt ggagacggcg ccttcagctt gagataaatg tggccccgtc  180
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cctcacagtg agctgggcct cctgccatcc tggctctgga gggcgtctga gtggaaagag  480
gctcagcctc acctccacac cctgaanact cactctctgg ccctgggctc tgttgtgtgc  540
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<210> 4104

<211> 693

<212> DNA

<213> Homo sapiens

<400> 4104

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caaacatgag gcaaaagaaa aaatacatgt ttttaagaaa acattgagca gagaactgca   60
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catctctctc tccagtttca cccacccac ctttgcttt catttcaggt gtgttggtct  180
atatgacagg gaggagagta aaggagagca ggagcaattg gctgcctgca aagccagctg  240
gaggtgaagt gcaggaaagg aaaggtcacc ccattctact ccatggcctc tctgctccca  300
gctgtggtag gtcacatan ccagtgtgat cggtttttaa gaggcagtgc ttttcagctt  360
ttctccctga tatatccatt ttgcttccca gcacttttta ggagtagtga gagcacttcc  420
tgcccttggt ggaagcccca ggggtggacac tcaagcacga aggtctctcc ctttaactgct  480
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ttctcctcac cgccaccttc cctgccccaa gcccgaagca gccatgggta catgggtccc 600
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<210> 4105

<211> 604

<212> DNA

<213> Homo sapiens

<400> 4105

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 tttcttagta aactcctgaa aaagtaggaa aggtggaaag tatatatcat tttataaat 180
 tttaaattgt acatcagact tttaaaatct gtaatatata agcaagcaaa attattttta 240
 atgacttaat tgtatgctaa tactcatctg ataataaatg cttcttaaag ttgacattta 300
 actgctatca caaagtttta tatgtagaaa agtgggggtcc ttttgaataa aagatcattc 360
 aactaaaaat attaaaattt atttcactgg atggtaatgt aaccttaaaa gcatcataat 420
 aggtaaagtc taatattagt tcccttaaca aaatcctaac tgtataaccag aattaggtca 480
 ctgaaagaac ttgatttgaa ttacgttttag acaaaaatga ttttaantgta aattccctaa 540
 aactttctaa atgcataant tgggcaaaaa agnnaancca cggttaccag tgtaggaagt 600
 taca 604

<210> 4106

<211> 622

<212> DNA

<213> Homo sapiens

<400> 4106

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ccctccagat cagccatggn tgccaccaac accaggccca atggncattg ttcctccttc 120
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 ccagaacaat cacaactttg gtggaccacc cgataatfff gcagtggggc cagtgaacca 240
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 attcttttga agtgtctcat caagaatacc taagatacgt gtttcacttt tcagacttgt 360
 ataaataanc acattctgtc tcagttatca atttttgagt attaaaataa ttagaatttg 420
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 aaaaaattaa aaatgtataa gtgcaatagc tatatgatgt tttattttct aatttatatt 540
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 caanggttaa gacatgantt an 622

<210> 4107

<211> 771

<212> DNA

<213> Homo sapiens

<400> 4107

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 ctaacattaa gttcatggtc aacatcactc taactcatac ctgaaccaag cttatctaatt 180
 gtgcatattt ttccccataa ggccitttttg cacttaggaa tgccagacag cactttggca 240
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 gcacatgtct gcaatgacca cagaaatacc acaagtattg gtttgggggt tacacatgaa 480
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 ataatgtaaa aacattctgc aagcatagtt tttttaagtt aatgatgtgg cttgtngacg 660
 ttttttatga agctacacta agatnaagtt gtantcctan gaagtggata ccataattat 720

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771

<210> 4108

<211> 661

<212> DNA

<213> Homo sapiens

<400> 4108

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tgattttatt ttaatgaagt gttatacaat caagaaatgg gggcaagggc ctgccccca 180
ctccctcacc tacctcctta gcattccttc aggctgctac tcggggctcc aggtgtgtga 240
attggctcctc agatagtcag gcctgggtgg agggagtggc aagtcaggcg tgcctcctac 300
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ggacctctga aaagatctgc aggggcccaag atgttgacgc caccggaggc tgcaaggatg 420
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agaaccaact gctcanggtc acaaaaagtt ggcaaaaatt gcnggnctgg ggcaagganc 660
t 661

<210> 4109

<211> 641

<212> DNA

<213> Homo sapiens

<400> 4109

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tttaaaggag ttttggtagc cgaacttgta ggcgtttttg gagcatatct tttgttttagc 120

aagatgcaca caagccaaga tttcaggcaa acaatgagca agaaatatcc cttcatcttg 180
 gaagtttatt acaaatccac tgagaagtct ggaatgtatg gaatcagaga gctagatcaa 240
 aaaacatggt tgaacagcaa aaattagatc cagtcatcac gttcagcctc ccatctaagc 300
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 ttcccaccca ctatacaaac ccaactgcttg tttgttgctt ttcttctcat atttattgtc 480
 aaagatgaat gtttcaaaaa gaaatgacta aggaaggaaa agaaacaaat gctctaaaga 540
 ttttctctcc ccaagcactt ttactggatga aataaaaacc agtnacaatc antatgtaaa 600
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<210> 4110

<211> 749

<212> DNA

<213> Homo sapiens

<400> 4110

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 ggctctggtg ctggagaagg atacgagcca atcagtgatg acgaactaga tgaaattctg 180
 gcaggtgatg cagaaaagag ggaggaccaa caggatgagg agaagatgcc agatccctta 240
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 cctggggctg cactcttaaa attcacacct ggagctgtta tgctaagagt tgggatttct 360
 aaaaagttgg caggttctga actctttgcc aaagtcaaag aaacatgtca gagactttta 420
 gaaaaacca aagatgcaga caatctcttt gaacatgaat tgggggctct caatatggct 480
 gcattactac gaaaagaaga aagagcaagt cttcttagta atcttggccc atgttgtaag 540
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 caccataaaa caagcttaca cgaagtgtc caatgggtag acaatgaatt acttcgattg 660
 gagtcctcgg ttantttaan cgggaaagac tactttgcca aggctccaan gacaatgaaa 720
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<210> 4111

<211> 802

<212> DNA

<213> Homo sapiens

<400> 4111

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gacccgcatt ttatccttga tgttcccctt ggagtgatca gcagagtgga gaagattgga 180
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attacccgtt gcagccagcc acttgtgggt cccaatgata agcgctgcaa aagaggatga 660
aaaatacttg caaaacaata aatggatgcc aacgcacagt cacacaagcc ttatcatcct 720
ttgaangccc cgacaaaaac angtgtcncc ggataaccaa acaaaggatg gctgcnttgc 780
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<210> 4112

<211> 629

<212> DNA

<213> Homo sapiens

<400> 4112

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 cgcccaggaa ctagcgctac tgcactccaa atacgggctt catgtgagcc cggcttacga 540
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<210> 4113

<211> 714

<212> DNA

<213> Homo sapiens

<400> 4113

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 atatatatag acacactgtc tttaaatcta ggctgtatc cgggtgtccga ggcgaactca 180
 gtaagatgat gttaagagga aacctgaagc aagtgcgcat tgagtaaaac ccggccccgcc 240
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 ncggcaccat tctcaagagc anacctctac nggattcgct ttcgctncac attggagcaa 660
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<210> 4114

<211> 769

<212> DNA

<213> Homo sapiens

<400> 4114

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cgggacgggg tagtgagcgc gtcacttcct gccgctgcca ggcgcgctcct cccgcgcgct  180
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gagtgggttc cttgggaaga actacctccc ctggaccagc ttttctgggg actgcgttgt  600
ttaaaagaac aaggctatga tccatttaaa gaagatctga accatctggt gggatacaan  660
ggaaatcatc tctangtggg ccganaagat ttgtatttcc tttaaaaaga caagaaataa  720
ggtcctgggt tangggaatt gaaaaaatgt ntacatttcg gnacaaact   769
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<210> 4115

<211> 602

<212> DNA

<213> Homo sapiens

<400> 4115

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tggcagaagt gctgctcctg ctctgctcc tttcgctggt ggggggaaga gtgatcaggg 180
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 aagagggctg gggccccac ctctggatgg tgctgaggtc tccaggctcc tggagtgcct 420
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 ctgctagtgg tggctaacta gagagtcagc aggggggtga ctgggaaaga gggagaggtg 540
 atgttgctg gtactcccct ccttgcgagc ctcataccac gtnacgtggc ngcnttgggc 600
 ca 602

<210> 4116

<211> 794

<212> DNA

<213> Homo sapiens

<400> 4116

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 tggaaggtga gcatctggtg aaggaacagc tggatgta agagagtaaa aatctgggga 180
 agaaagatag atcagctgtg tcagctgctt ctattgggtg gagtacaatg aggcctggtg 240
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 ggaaggcana gggaggagaa taaaccttaa aacangtcac accaaaccgg tagtggnaaa 660
 taagtgcact ctctccac tgttgatact ggagatttan aatttttaac acaatttttt 720
 aaaccnctac acatttgata ggtttgccta aattttacct ttattacta cnganaataa 780

actttttcan atta

794

<210> 4117

<211> 731

<212> DNA

<213> Homo sapiens

<400> 4117

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aagtgttct ttagctatga tgaatgacta gttttaatt acgaatctgt cacaacctag	180
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atcaacaggc attaaattgt cagattgcta taaaaacttc taaatgtttt caattttttg	300
ctcataatga ccttctaata aacttggttg ggtcagcacc catttgcaga cgacactatc	360
agtaccactg tactagaaca tatttaccat tttatagtca gcagttaaaa tgtgaaagct	420
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acattatgat ggctgaattc ctgcaggatt attaacttac aaaaagggtt ttttagtaat	540
accaggaaaa ttgataagt accaattcta tgcagagata agtctttttc agtggactca	600
attaaaacat cataatcctc attttaagtc tgcatttaa tttgagggtt gnttttaata	660
nctgggttang tgttattcaa tgaantctca gttttacagg gttaaaaata ttttaacca	720
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<210> 4118

<211> 708

<212> DNA

<213> Homo sapiens

<400> 4118

taattgtaaa gttttgttat atatctttta tcacaacttt agttgtaagt aaacaaagta	60
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<210> 4119

<211> 670

<212> DNA

<213> Homo sapiens

<400> 4119

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caaaacntgc

670

<210> 4120

<211> 751

<212> DNA

<213> Homo sapiens

<400> 4120

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 ttcttcccta tgaagttttt cctggtttgt tttcaaaac cccaagttgg gccgtttttt 660
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<210> 4121

<211> 567

<212> DNA

<213> Homo sapiens

<400> 4121

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<210> 4122

<211> 820

<212> DNA

<213> Homo sapiens

<400> 4122

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 aataccttat atattccaaa ttttattctc tataatggac ttttaaaata aaaggtatat 180
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 aaggggtana cctttaattt aaaataaggn caataacccc cagtgactaa ancgaatatg 780

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820

<210> 4123

<211> 514

<212> DNA

<213> Homo sapiens

<400> 4123

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<210> 4124

<211> 780

<212> DNA

<213> Homo sapiens

<400> 4124

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<210> 4125

<211> 679

<212> DNA

<213> Homo sapiens

<400> 4125

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<210> 4126

<211> 728

<212> DNA

<213> Homo sapiens

<400> 4126

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atactggaga gaggccttac agatgtagta aatgtggcaa agcatttcga ggggtgttcag  180
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gttctagcat taatcaacat cagtgagtcc atactaagtg gaaatcatat aaatgaaatg  480
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atagaacacg atagggattt acacaagaag taactctgtc tctgggtctc tgataactaat  660
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cngatggt                                         728
    
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<210> 4127

<211> 643

<212> DNA

<213> Homo sapiens

<400> 4127

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aaacaacttt acctggactg aagataaaaag cacagacaag agaacaatgc cctggacatg  180
gctccagaga tccacatgac aggcccaatg tgcctcattg agaacactaa tggggaactg  240
    
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gtggcgaatc cagaagctct gaaaatcctg tctgccatta cacagcctgt ggtgggtggtg 300
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 ggagatgtaa agaagggtga canccagant gactcctgga tcttcaccct ggccgtcctc 540
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<210> 4128

<211> 833

<212> DNA

<213> Homo sapiens

<400> 4128

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 cctgaatggg gaagggtata catccgttgg tggctccgga tccatatggg ncaaaaaagg 780
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<210> 4129

<211> 633

<212> DNA

<213> Homo sapiens

<400> 4129

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cagagcctca nnggctttcc cgcactgtct tgggaaacat gggcgtactt tgaggtctcc 600
tgcaancgtg ttgtttgggg tcccccaaat gnn 633

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<210> 4130

<211> 739

<212> DNA

<213> Homo sapiens

<400> 4130

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<210> 4131

<211> 695

<212> DNA

<213> Homo sapiens

<400> 4131

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<210> 4132

<211> 772

<212> DNA

<213> Homo sapiens

<400> 4132

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<210> 4133

<211> 783

<212> DNA

<213> Homo sapiens

<400> 4133

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tccttcaata cgggactgct ggatttcgaa cgaaggcaga acatcttgat catgtcatgt  180
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<210> 4134

<211> 776

<212> DNA

<213> Homo sapiens

<400> 4134

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 ccctgcccac acaaaacagg acatctgtga cgtcctaccc nangccatcc ccaaactaa 720

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<210> 4135

<211> 689

<212> DNA

<213> Homo sapiens

<400> 4135

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<210> 4136

<211> 664

<212> DNA

<213> Homo sapiens

<400> 4136

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 ncaa 664

<210> 4137

<211> 724

<212> DNA

<213> Homo sapiens

<400> 4137

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tgnn

724

<210> 4138

<211> 667

<212> DNA

<213> Homo sapiens

<400> 4138

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ttncaan 667

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<210> 4139

<211> 814

<212> DNA

<213> Homo sapiens

<400> 4139

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<210> 4140

<211> 677

<212> DNA

<213> Homo sapiens

<400> 4140

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 gaagggacta cccagccgca tgggtggtgtc aatatttgat cccctgtga attggcttcc 180
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 aatgccccaa aaatcctcct taggtagtat gccattttca tcaagatttt gaggattttg 540
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actttgtggt ggggttctgg aatccatcan nagaaaaact gtgngttga caccgggaaa 660
agnantccaa tttctta 677

<210> 4141

<211> 765

<212> DNA

<213> Homo sapiens

<400> 4141

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catggatcat ggggttgaca gcagcatttt ccaagaatcc taaaaagctt catctaaact 660
attggggaat gtttgggtgc cntttgagtt gaaggaagag attccagcag gncnatgtta 720
agnatgctac aagcaagtgt taaaagaggg aattcattaa ntgga 765

<210> 4142

<211> 663

<212> DNA

<213> Homo sapiens

<400> 4142

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 aatgtacata ttgttggttg tttcataaag catatcactt taaaatgggt tttactcctg 180
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 ata 663

<210> 4143

<211> 625

<212> DNA

<213> Homo sapiens

<400> 4143

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625

<210> 4144

<211> 791

<212> DNA

<213> Homo sapiens

<400> 4144

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 taagttttta acagaaggtg aacctctgag atagaaaatc aagtatatatt taaaagaagg 180
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<210> 4145

<211> 815

<212> DNA

<213> Homo sapiens

<400> 4145

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 ggggtggggg nccntcaatc caaacaaggg attcc 815

<210> 4146

<211> 719

<212> DNA

<213> Homo sapiens

<400> 4146

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 aactaatact gtatttaaga caggaacccc tgggccctaa caagttgatt tatgcttccg 660
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<210> 4147

<211> 669

<212> DNA

<213> Homo sapiens

<400> 4147

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 accccccca 669

<210> 4148

<211> 814

<212> DNA

<213> Homo sapiens

<400> 4148

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<210> 4149

<211> 664

<212> DNA

<213> Homo sapiens

<400> 4149

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<210> 4150

<211> 771

<212> DNA

<213> Homo sapiens

<400> 4150

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<210> 4151

<211> 662

<212> DNA

<213> Homo sapiens

<400> 4151

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<210> 4152

<211> 746

<212> DNA

<213> Homo sapiens

<400> 4152

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<210> 4153

<211> 703

<212> DNA

<213> Homo sapiens

<400> 4153

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 cagatgagga gttgggcgga ggggcccagc ccctactgc ccaagtctat gaattccccg 600
 aacctccan cagtgccagn atcatctggt gaaaaagact ctcanctttc caaaaacaag 660
 ggccatcctc acgcttccca anacctgtcc cggggctcac tgn 703

<210> 4154

<211> 720

<212> DNA

<213> Homo sapiens

<400> 4154

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caaattatta ttgtctctta ggtttggata ttgatgggat atacagagta agtggcaacc 60
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ttattcagat gcactactca taactttttg aactggctta aagtaatttt ttaaaatgtc 180
caattcctgc tgtttttcag atgagaaatt ggacttgaat gacagtaa at gggaagatat 240
tcatgtcatt actggagccc tcaaaatgtt ttttcgagaa ttaccagaac ctctttttac 300
atttaatcat tttaatgatt ttgttaatgc aattaagcaa gaaccaagac agcgagtcgc 360
tgctgttaag gacctaatca gacagttgcc aaagccaaac caagacacaa tgcagattct 420
tttccgacat ctcagaagag ttatagaaaa tggagagaaa aatcgaatga cctatcagag 480
tatagcaatt gtttttggtc ccactctatt aaaaccagaa aaagagactg gtaatatagc 540
aagttcatac tgggtaccaa gaatcagatt gtagaattaa ttcctcctgg aactgagttc 600
catcttcgga cggttgattc ctactgaaga caaccctgtg gnataaaaaac tgggattcca 660
tcagatttca aatggttata cacaaatggn antttaattt tttggnccaa agcantgacc 720

```

<210> 4155

<211> 685

<212> DNA

<213> Homo sapiens

<400> 4155

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gattcttccg gtttcaagaa gttaaggctg gtgtcctggc cccagtccac ctctgggagc 60
gcctgcgccg ctccgcggag agtccgtgga tctcacaggt tcccagtttt ccagacctga 120
agtgttttcc agtcaaagcg aagagacgat ctgtggatgt tgaatatgca aggagctgaa 180
gagagagaca ttagaagaga gacttgtcca ggctgggtaa acaagaacaa gcctgctctg 240
gagcaggatg tctgtaaaat tgactcatca gggatagtag taaagagggt ccaagaggat 300
gaataccaag attctacatt tgaagaaaaa tatgcatgtg agggcatgaa ggaaaactct 360
cctagggaga ttgctgaatc atgccttttc caggaaggag gttttgggag aataactttc 420

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atccacaaag aagcaccccc tgaaattatt agtcaaggat ataattttga gaaaagcttg 480
 cttttgacct caagccttgt tacacgtctc agggtttcta cagaagagag tctgcatcag 540
 tgggaaacaa gtaatatata aaccaatgat atttcaaacc aaagtaaagtg tccaactctc 600
 tgcacacaga aaaaatcttg gaaaatgtta tgaatgggtg gnaaaacctt tactcannag 660
 ctcatccctt acccaacatn agngg 685

<210> 4156

<211> 740

<212> DNA

<213> Homo sapiens

<400> 4156

atcccacggg atcaagcatc agcaacgtgc agctggcaga cactgtcatg ttcaccattg 60
 gagctctgtc tgaatggctg gctgaccacc ccgtcatgat caacagtgtt ctgcccttgg 120
 tactgcatgc cctaggcaat cctgagctgt ctgtctcttc tgtgtccacc ctcaagaaga 180
 tctgccgaga gtgcaagtat gacctgcctc cctatgctgc caacattgtg gctgtgtccc 240
 aggatgtgct gatgaaacag atccacaaga caagccagtg catgtggctg atgcaggcgc 300
 tgggcttcct gctgtcagct cttcaagtgg aggagatcct taagaacctg cactcgctta 360
 tctcacccta tatccagcaa ctggagaagc tggcagagga gatacccaat ccctccaaca 420
 agctggccat tggtcacatc ttggggcttc tctccaacct cttcaccaca ctggacatca 480
 gtcacatga ggatgatcat gaaggccctg agcttcggaa agctgccaag tgccacaggg 540
 acccaacccc gtggtggtgg tgctgcanca ggtcttccaa gcttatccag aaggtgctga 600
 gcaaattgggt taaatgatgc ccaagttgtg gaagcggtgt gcgctatctt ttgagaaaat 660
 ctgtttaagg ngctgctggg attaatcttg ccccccattg gggccacaag ctgtgtttaa 720
 natgcntggg tccggnntgt 740

<210> 4157

<211> 776

<212> DNA

<213> Homo sapiens

<400> 4157

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attgggtgtt atctaagcca ataaaacatt gttgattata ggtttgggtgt tttgaccatt 60
agctgacatt tgattaacct ttttttctat gataagagaa ccatgggtcac ttttaagcat 120
ataatgaact tttatatttt taacagaaga taattgtttt aaaatattac acttattacg 180
tgtaattatg tctacagggc tcaactcagct atccattttt gttgtctgtt ggggaaatac 240
tccttaagag gattgtgtgc acaatattaa gttatcatta atcaaatatt ctcttctggg 300
agataatttt tatgtgttaa agtagtctca ctatggaaaa acttctaata taactattaa 360
atgtctctcc tcaactacgt tattttttaga gttactgtga caacaacata ctttggccac 420
tctgaacaga tatcccagga gaggtatcag tatgtcgact gtggaagaaa cacaacttat 480
cagttggggc agtctgaata tttaaatgta cttcagccac aacagtataa actggaagag 540
atggatttaa ngaagaaata tctattgnta tttcctatac tctcaatgaa gaggtatttc 600
cnaataggag accttaaatt gaacaaacct aaagggtaca cttctaagag tacagttaaa 660
aagtatgtgg acctgcagtt cttgtaactc tccactctgt gttaatggat aaaattggac 720
canggatcct tttacttgaa atcctaaatt taccngggnt gatttccctt tctcca 776
```

<210> 4158

<211> 667

<212> DNA

<213> Homo sapiens

<400> 4158

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ctcgggcctg acctggaagc tccgtcagct ccgtccttgt ccttagagct gagcccagac 120
cccgggggtct ggccgaatcc tcacccccag ggcagtgttt ttggtctgcc accttcagga 180
aaacggctgc ggcctcggcc tcccttcggg caccaggaa tgcgggggtc tgctcagtcc 240
ccccaccctc catgtccaa cccccggggg ctgcggagcc tgctgcccc tccccgcggg 300
tggggacgtt ctatgcaata cagggttcca ctttagaagt gcgcgcggct agggtcaccg 360
```

cccgcccttc ccggcgcagc ccccgagctc cacagctgag gcagccccctc tggcttctaa 420
 atccgcggtc gggattcttc ctctgttta gtttttagt ttttccttaa aaaaaaaca 480
 cacatcgatg gactttgctt ccctgttctt gaagaatact tgaatgtcgg ggggcctggg 540
 ggtggggggc tcggagaccg tctgccaagc cctgtgccc ctctgaatc tcgtatgatg 600
 gtcacantcc ggtggccgtg ggggtgctct gccttcctg gnccccantg gcccaaatc 660
 tgntggn 667

<210> 4159

<211> 793

<212> DNA

<213> Homo sapiens

<400> 4159

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 tgtgagccag gcaaagaatg ggaggaagat gttttcagg gatcaagccc aaatccattc 180
 attggtaggc caagaattca ttgtcagtaa atctttgggt ctctgttga gaagaacant 240
 gattgtatta gtcagttctc atgtctgtaa taaagacgta cccaagtctg ggtaatttat 300
 aaagaaaaag aggtttaacg gactcacagt tctacatggc tggggaagcc tcacaatcat 360
 ggtggaaggc aaaggaggan aaaggcacat ctacacagt ggcaggcang agggcgcttg 420
 tgcaggggaa ctccctttta taaaaccatc agatctcatg agacatatca ttatcatgag 480
 aacagcatgg gaaagacca ccccatgan tcanttacct cccacgacat gcgggaatta 540
 tgggagctac aattcaagat gagatttggg tggggacaca gccaanccat atcaatgatg 600
 ctaaataaac ccattggtta cactcacaga agtaacctgg atcactgagt ccccatgtng 660
 gttaaaatta agactgccct tttctgtaan gggaaaatat tttgaacctt aggggcttct 720
 caaaaaagg gttttggtga gancctttgc caancaattc cttantcaaa ggccttcaag 780
 gacaaaccn gc 793

<210> 4160

<211> 755

<212> DNA

<213> Homo sapiens

<400> 4160

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tcctttgtca aagatcaagt tgaccatatt tatatggatc tatttctggg ctctctgttc   60
tgttgcatg ctctctatct gttgtccttc ctttactgc taccatactg tctttgattc  120
ctatagcttt acagttagtc ttgaagtcac aaaagcatgg gatcccccatt tagtggatcg  180
tcctggaatt ttttaactctc agatttgtac acacctagcc ttcagcaatt tgtgaattac  240
agttcagatt ttcctaccct agcactgggt cccaaagagg tttctgttaa agtatgttgt  300
gattctctcc atctacgact ttctcttctt atttttggga cagaggtttg tcttgtgacc  360
tcacttctct tacagatcta agagtaatgg ttgatttttc aagtttggtc aactttttac  420
ttgttaggat agagtgggtga ctccaagct tcatgcagaa ccggacaaca gaaattgaga  480
gggaaatttc tatgacagaa gagagaaaga agaaaattgc tggaataatg accttgaata  540
gaggaaatgg gatatcatct ggtaagcaaa tagagaagct ggcttttagat aagagcctgg  600
acaattcatt catagaatag cagaaaaggc agaatttatg tccatagatg caagtggtaa  660
angtagatat agtgatggga atttgtaaaa agttaccttc caaatgccaan tttttttaaa  720
ngaaattaag gaaancaaan gtcaatcaaa ctcaa                                755

```

<210> 4161

<211> 694

<212> DNA

<213> Homo sapiens

<400> 4161

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atcaggatgt ctgagaggag agcatggtgt ttttgcttca ttggatccat gcaggctctg   60
gagggtggtg gccactctt tctgggccaa gtagagggtg gctcagacac ccccccttcc  120
tccaggcttc tcatctgtaa ctggtgaagc ccggaagagc ttgttggtca agaggaaatc  180
ttgtgttact tctttatgaa ggactccagc ctggtggaga tgaatgagtc ctgaagatgg  240

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aatcgaagct gtttgggcac aatacttta tcagcattta atgacccagt cgaaaattca 300
 ttgtttggac ccaagcactg gtgggaaagg caggagggga ggcctgcctt ccttcctccc 360
 tcccagagccc tacagcaggc catggagtgg tgagcgagtt cgtacagtgc caaccacatt 420
 cccagaaaact tccagcagag gttaatcctg ctctctcaa gtangagaca atgaatggat 480
 ttttaacaaat ggactccctg tgtttagctaa tgccaagtcc ctactcaacc taggatgact 540
 ccaatggcgc atgtcccat tcccgggccc taaggctgcg ctaacatgct atcctgcctg 600
 ccccttcatt ctccaacctg gcacattccc actcctttcc cctcccaana cggaaagnca 660
 tgnccctggac ntgggacacc ccttcatac caan 694

<210> 4162

<211> 752

<212> DNA

<213> Homo sapiens

<400> 4162

tanaaanaac atttgccatg aaggactttt caggtgtttc agatgctgac aactcatcca 60
 tgaaattgaa ccaggatgtg ctattagtta atgaatcana aaagggaata ttanatgaag 120
 ataatgaaaa agaaaaaagg gactcttttag gcaatgaaga atctgttgat aaaacagcat 180
 gtgaatgtgt aaggagtcca agggagtctt tggatgacct gtttcaaata tgttctccat 240
 gcgccattgc aagtggncct cggaacgacc tggctgaatt gacaacatta tgtttggagt 300
 tgaatgtatt gaattctaag atcaaaagca ccagtggaca tgtggaccac actttgcaac 360
 agtactctcc tgaaattctg gcttgccagt tcctgaagaa gtacnttttt ctctgaact 420
 tgaaaagagc gaaggagagt atcaagctta gttacagtaa tagcccttct gtttgggata 480
 cttttattga aggattgaaa gaaatggcaa gttccaatcc tgtgtatatg gagatggaaa 540
 aaggagatct accaacaagg ttaaagttac tagatgacga ggttcctttt gatagtccgt 600
 tgttggntgt ttaagctacc cggttgtatg aaaagtttgg ggaagtctgc tcttccgatc 660
 cntaatcaag ttctttccan ccattttgcc atcgatatc atnaaacttt ggcancatca 720
 acctgctgan gtttttgggg ccaatttaaa ca 752

<210> 4163

<211> 665

<212> DNA

<213> Homo sapiens

<400> 4163

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agttggtgag catcatggca accgttacag ccacaaccaa agtcccggag atccgtgatg   60
taacaaggat tgagcgaatc ggtgcccact cccacatccg gggactgggg ctggacgatg  120
ccttgagacc tcggcagctt cctgatgtgg tagaaatgcc atggtagccc cacaggaaat  180
cacctcatgt gcgcctccca cccacaggct tcgcaaggca tggtaggtca gctggcggca  240
cggcgggagg ctggcgtggt gctggagatg atccgggaag ggaagattgc cggtcgggca  300
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gccctgggccc ctgacacgcc attcacagcc atcgccggca gtgaaatctt ctccctggag  420
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gaggagacgg agatcatcga aggggaggtg gtggagatcc agattgatcg accagcaaca  540
gggacgggct ccaaggtggg caaactgacc ctcaaggacc acaganatgg gagaccatct  600
acgacctgng caccaagatg attgagtccc tgaccaaggg acaangtcca aggncggggg  660
acgtn                                     665

```

<210> 4164

<211> 733

<212> DNA

<213> Homo sapiens

<400> 4164

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ctttcttgat gccgttacgt ccatggattt tttccagga ttaaatttgg aaggctatcc   60
taacagagac agtacgaaat atgctgagat ttatggcatt tcttctgctc acactttgtt  120
gcgggggaca ctgagatata agggattgga atgctgaata atggattgga atgttgaata  180
atgttgaata ccttcctatg gtatcctccc taactccttc cccttgaacc accagcccc  240

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atctatggat atatgaaagc tttgaatgga tttgtaaaat taggtcttat aaacagagaa 300
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 ctagttggga tttcaccctc ctctgagcat gatgtgtga aggaagctgt tcttaagaaa 420
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 agagcaaat atactgggat caatgattgc taatttctac tcaaaaaaag ttaaataattt 540
 tacatttgtc tttgattaat tcgttgctcc aatgtgggta gagagattac catgtgccat 600
 gttcatgtgg gcataaagag tagattaaag agaggagctc aatgggcaat tnagaatttt 660
 gngaaaatgc ttatctcgaa acactttacc actcagttcc caagcatann gggggtattt 720
 ttgctttccn ggt 733

<210> 4165

<211> 690

<212> DNA

<213> Homo sapiens

<400> 4165

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 gttgatggag aaaataatct ttatccttag cctccatctg gttgcagacc ataaagacag 120
 ggaaaaaatg aggggtgttg tagcttcgtt agaaactgaa agctcactga tttttcaaa 180
 acctaaatag cctgtgtttc tccaaataac taatttgcag ccttcggcag ccaggactgg 240
 cagggatggg gctaggggga ctggggagaa ctgctctctc ctgagggtgg tctgacccga 300
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 aatgaaatac tcttcagcca gtaaaatgta tttttggata aatatttgct ttaaaaaact 420
 ttactatatg ttgttaaag aaaaaaaac cttaaggnat cagaaattat gtgcagtaaa 480
 atctcacttt tgtaaataaa tatacctgtt tactacgtat gcataaaaag aatcctgaga 540
 aatataagta ctgtatgcat attggttggt aaagtanttt ttccggttgc ttatctanaa 600
 ntcnaatttt tgcttcaaag gaaaaagttt actccgggca atattaaaaa attaanataa 660
 ctaattttgg ccttgtcaat caaaaccagn 690

<210> 4166

<211> 731

<212> DNA

<213> Homo sapiens

<400> 4166

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gcaccgggaa aataacaatc gtatttcagg ttgaaagctc ctattactgc tgggttttgg 60
aggctgcgat aaaatcttca tcgacgtgaa ggtaccttct gggttggctt gggtcgtaag 120
tcctaagatg ggggccgtcc ttccctgggg gcagggacgt agggaaccag gcggtgggga 180
gggagaaagg agcgacgagg tcagaggaaa ccttgggttt ccaaggctcc tggggcacca 240
aagggttcc cgagtcggg gaattgagcc ctggggagga gccttttgcg agaacgtgag 300
cgcgcccaa cacgcctcag acctcgtaaa ccacttggc aaagaccggg gaagcggctg 360
gcggaccgac tgcggtgaac tcaagaaatt aacctgcgt gcaactaaac gggctgccgc 420
cctttcacac tcacctgag cgaccgagat agagaaagct cccgaaccgg ncgcgggggg 480
acttggtcc accctcccgt cccgggagaa gangacaaaa aggggagatg gacttggaat 540
ggccccgcc ttcacaagcg ctccaatcct tggaaccaa acctcctctc caaagcctcc 600
acgtctagaa gggacaaagg cagcgaagga gattcagaga cccgacggg aaatggtggc 660
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aatcaannaa t 731
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<210> 4167

<211> 493

<212> DNA

<213> Homo sapiens

<400> 4167

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agccatggag caggcacctc cggaccccga gcggcagctc cagccggcgc ccttggagcc 60
gctgggctcc ccagacgtg ggctgggggc tgcggtcggc aaggaagcgg agggggccgg 120
agaagagagc tctggggtcg acacgatgac acacaataat ttttggttga agaagataga 180
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